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Springer NEWS and eBook Collections

Springer NEWS and eBook Collections

Which subjects are in which collections?
As a rule, all Springer titles are included in Springer's eBook Collections. Exceptions are marked in the NEWS as "only available in print." Read the table to find out which subjects are in which collections.

NEWS Chapter	eBook Collection
Biomedicine	Biomedical and Life Sciences
Business Management	Business and Economics
Chemistry	Chemistry and Materials Science
Computer Science	Computer Science
Dentistry	Medicine
Earth Sciences	Earth and Environmental Science
Economics/Management Science	Business and Economics
Education	Humanities, Social Sciences and Law
Energy	Energy
Engineering	Engineering
Environmental Sciences	Earth and Environmental Science
General Science	Humanities, Social Sciences and Law
Geography	Earth and Environmental Science
Humanities / Arts / Design	Humanities, Social Sciences and Law
Law	Humanities, Social Sciences and Law
Life Sciences	Biomedical and Life Sciences
Linguistics	Humanities, Social Sciences and Law
Management/Business for Professionals	Business and Economics
Materials Science	Chemistry and Materials Science
Mathematics	Mathematics and Statistics
Medicine & Public Health	Medicine
Pharmacy	Medicine
Philosophy	Humanities, Social Sciences and Law
Physics	Physics and Astronomy
Popular Science	The corresponding subject
Professional Computing	Professional and Applied Computing
Psychology	Behavioral Science
Social Sciences	Humanities, Social Sciences and Law
Statistics	Mathematics and Statistics

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014729b

A. Agrawal, Brigham and Women's Medical Hospita Harvard Medical School, Boston, MA, USA; **G. Britz,** Methodist Neurological Institute, Houston, TX, USA (Eds)

Emergency Approaches to Neurosurgical Conditions

Patients with neurosurgical conditions are almost always referred from either primary care physicians, neurologists, internist or a specialist in family medicine. This comprehensive guide will answer commonly asked questions about common neurosurgical conditions related to brain and spinal cord, in an attempt to fill in the gap and answer numerous questions that arises after a diagnosis is made on the loved ones.

Features
► This book is a comprehensive guide for patients and families under neurosurgical care ► Is it co-authored by reputed neurosurgeons who have a mastery in the subject ► This book is from the physicians and the patients/families to the future patients and families whose loved ones are under neuro-surgical care or in the neuro-intensive care unit

Contents
1. Non Malignant Brain Tumors.- 2. Malignant Brain Tumors.- 3. Pituitary Tumors.- 4. Pediatric Brain Tumors.- 5. Congenital Neurosurgical Problems.- 6. Hydrocephalus.- 7. Chiari Syndrome.- 8. Brain Aneurysms.- 9. Brain Arteriovenous Malformations.- 10. Moya Moya Disease.- 11. Medical Management of a Stroke.- 12. Neuro-Interventional Management of a Stroke.- 13. Symptoms and Signs to Look for After a Spinal Cord surgery.- 14. Evaltuation of Spinal Alignment.- 15. Herniated Discs of the Spine.- 16. Spinal Fusions.- 17. Spinal Tumors.- 18. Epilepsy

Fields of interest
Neurosurgery; Neurology; General Practice / Family Medicine

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XIII, 190 p. 54 illus., 38 illus. in color. Softcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-3-319-10692-2

T. Asai, Shiga University of Medical Science, Otsu, Japan; **M. Ochi,** Nippon Medical School, Bunkyo-ku, Japan; **H. Yokoyama,** Fukushima Medical University, Fukushima, Japan (Eds)

Off-Pump Coronary Artery Bypass

Less invasive surgeries are becoming necessary because the world's increasingly older populations are becoming viable candidates for coronary artery bypass operations. Because of the technical difficulty, the percentage of off-pump coronary artery bypass (OPCAB) in coronary artery bypass graft (CABG) surgery CABG is still low in the US and Europe. However, in Japan OPCAB is the standard CABG, making up more than 60% of all CABGs. In addition, the operative mortality in primary elective OPCAB is very low (less than 1% in 2010). Moreover, the trend of utilizing arterial grafts has produced excellent long-term outcomes. This book first describes the state of the art of OPCABs performed by Japanese surgeons with the "Kaizen Mind" and explores the techniques and approaches that explain why OPCABs are such a huge success in Japan.

Features
► This book provides an overview of OPCAB in Japan ► Clearly demonstrates how unique and useful the Japanese OPCAB method is ► Written for both residents and specialists interested in learning about the latest trend in cardiovascular surgery

Contents
Table of Contents Part I: The current overview of OPCAB (by Prof. Ochi) 1 OPCAB in the world 2 OPCAB in Japan: Kaizen mind 3 Operative outcome 4 Long-term (10 years)

Fields of interest
Cardiac Surgery; Cardiology; Minimally Invasive Surgery

Target groups
Professional/practitioner

Product category
Contributed volume

Due February 2015

2015. 250 p. 150 illus., 50 illus. in color. Hardcover
► **approx. *€ (D) 149,75 | € (A) 153,94 | sFr 186,50**
► **approx. € 139,95 | £126.00**
ISBN 978-4-431-54985-7

K. Bammann, W. Ahrens, Bremer Institut für Präventionsforschung und Sozialmedizin (BIPS), Bremen, Germany (Eds)

Measurement Tools for a Health Survey on Nutrition, Physical Activity and Lifestyle in Children

The European IDEFICS Study

Features
► Designed to serve as a toolbox for epidemiological research, with a unique wealth of survey instruments, including questionnaires and standard operations procedures ► The instruments were designed to be modular, to allow for country adaptations, and have been tested and applied in a large survey in eight European countries

Contents
Introduction.- Overview over IDEFICS: study design.- Overview over IDEFICS survey procedures: Choice of instruments, survey modules, Quality Control concept.- Physical examinations.- Biological samples SOPs for collection, shipment, storage and documentation.- SACINA, 24HDR.- FFQ diet questionnaire.- Measurement of PA with accelerometers.- Data from official records.- Parental questionnaire.- Setting and caretaker/ teacher questionnaires.- Qualitative studies.- Process evaluation.- Sensory perception and food preferences.- Physical fitness.- Electronic Appointment System (EAS).- Re-print of all questionnaires, examination sheets and GSM.

Fields of interest
Epidemiology; Maternal and Child Health

Target groups
Research

Product category
Contributed volume

Due January 2015

2012. Approx. 370 p. (Springer Series on Epidemiology and Public Health, Volume 5) Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-1-4419-1382-1

N. Baum, Tulane Medical School, New Orleans, LA, USA; **R. G. Bonds,** American Academy of Medical Management, Atlanta, GA, USA; **T. Crawford,** University of Florida, Gainesville, FL, USA; **K. Kreder,** University of Iowa, Iowa City, IA, USA; **K. Shaw,** Austin Urology Institute, Austin, TX, USA; **T. Stringer,** University of Florida Shands Health Center, Gainesville, FL, USA; **R. Thomas,** Tulane Medical School, New Orleans, LA, USA (Eds)

The Complete Business Guide for a Successful Medical Practice

Contents

The Basics of the Business of Medicine.- Transitioning from Training to Practice.- Job Search.- Compensations Models, Patient Volume & the Pro Forma.- Insurances and Essential Fringe Benefits.- The Coding Aspect of the Business of Medicine.- Understanding Financial Statements.- Numbers You Need to Know.- The Revenue Cycle.- Stark Law Impact on Medical Practice.- Restrictive Covenants.- Medical Equipment: Leasing vs. Buying.- Ancillary Income.- Selecting Advisors.- Debt Reduction.- Becoming Financially Savvy.- Practice Buy-In Options: The Road to Partnership.- Marketing: Understanding the Modern Patient and Customer.- Building Your Career, Your Reputation, and Your Personal Brand.- The Business Side of Developing a Social Meida Presence into Your Medical Practice.- Burnout Prevention for Practicing Physicians.- Future of Medicine.- Conclusion: Our Very Last Bottom Line.

Fields of interest

Cardiology; General Surgery; Practice Management

Target groups

Professional/practitioner

Product category

Professional book

Due November 2014

2015. XII, 414 p. 18 illus., 10 illus. in color. Softcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11094-3

D. L. Bhatt, VA Boston Healthcare System, Brigham and Women's Hospital, and Harvard Medica, Boston, MA, USA (Ed)

Peripheral and Cerebrovascular Intervention

Peripheral and Cerebrovascular Intervention draws upon experts from diverse fields to provide readers with a comprehensive foundation for understanding and performing endovascular procedures—from the basic steps to the most current and advanced techniques. Individual chapters focus on primary intervention sites, including lower extremity, renal/mesenteric, subclavian/upper extremity, carotid/vertebral, intracranial and venous interventions. Additionally, chapters covering critical limb ischemia and abdominal and thoracic aortic aneurysms are included.

Features

► Most current and advanced techniques for peripheral and cerebrovascular interventions ► Experts from diverse fields provide a comprehensive foundation to understand and perform endovascular procedures ► A valuable resource for the busy practitioner

Contents

Peripheral and Cerebrovascular Disease.- Lower Extremity Intervention.- Critical Limb Ischemia.- Renal and Mesenteric Intervention.- Subclavian and Upper Extremity Interventions.- Carotid and Vertebral Intervention.- Intracranial Intervention.- Abdominal and Thoracic Aortic Aneurysms.- Venous Intervention.

Fields of interest

Cardiology; Interventional Radiology; Vascular Surgery

Target groups

Professional/practitioner

Product category

Contributed volume

Available

2012. X, 236 p. 136 illus., 36 illus. in color. (Contemporary Cardiology) Softcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-1-4939-1675-7

S. Chokroverty, New Jersey Neuroscience Institute JFK Medical Center, Edison, NJ, USA; **M. Billiard,** Gui de Chauliac Hospital, Montpellier, France (Eds)

Sleep Medicine

A Comprehensive Guide to Its Development, Clinical Milestones, and Advances in Treatment

Contents

Preface.- Acknowledgements.- Introduction.- I. Evolution of Sleep Medicine by Historical Periods.- Sleep in Ancient Egypt.- Sleep Medicine in the Arab Islamic Civilization.- Sleep Medicine in Ancient and Traditional India.- Sleep Medicine in Ancient and Traditional China.- Sleep in the Biblical Period.- Sleep in the New Testament.- The Greco-Roman Period.- The Aztec, Maya, and Inca Civilizations.- II. Sleep Medicine from the Medieval Period to the 19th Century.- Sleep Medicine in the Middle Ages and the Renaissance.- Sleep in the 17th and 18th Centuries.- III. The Early Evolution of Modern Sleep Medicine.- The Evolution of Sleep Medicine in the 19th and the Early 20th Century.- The History of Polysomnography: Tool of Scientific Discovery.- IV. Sleep Medicine Societies, Professional Societies, and Journals.- A History Behind the Development of Sleep Medicine and Sleep Societies.- Development of Sleep Medicine in Europe.- Evolution of Sleep Medicine in Japan.- History of Japanese Clinical Sleep Medicine.- Sleep Medicine around the World (Beyond North American and European Continents).- V. Sleep Disorders in Historic Diseases.- Cholera.- Encephalities Lethargica.- African Sleeping Sickness.- Sleep and HIV Disease.- VI. Historical Milestones of Individual Sleep Disorders.- Evolution of the Classification of Sleep Disorders.- History of Epidemiological Research in Sleep Medicine.- The Insomnias: Historical Evolution.- VII. [...]

Fields of interest

Neurology; Psychiatry; General Practice / Family Medicine

Target groups

Professional/practitioner

Product category

Contributed volume

Due March 2015

Only available in print

2015. 473 p. 99 illus., 45 illus. in color. Hardcover
► **approx. *€ (D) 149,75 | € (A) 153,94 | sFr 187,50**
► **approx. € 139,95 | £127.00**
ISBN 978-1-4939-2088-4

M. V. Cunha, J. Inácio, Instituto Nacional de Investigação Agrária e Veterinária, Lisboa, Portugal (Eds)

Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies

Contents

Overview And Challenges Of Molecular Technologies In The Veterinary Microbiology Laboratory.- Significance And Integration Of Molecular Diagnostics in the Framework of Veterinary Practice.- Biosafety Principles And Practices for the Veterinary Diagnostic Laboratory.- Veterinary Biobank Facility: Development And Management For Diagnostic and Research Purposes.- Biological Specimen Collection And Processing for Molecular Analysis.- Validation Of Molecular Diagnostic Assays And Quality Assurance and Control in the Veterinary Laboratory.- Molecular Approaches To Recognize Relevant And Emerging Infectious Diseases In Animals.- Real Time Reverse Transcriptase PCR For The Detection Of Bluetongue Virus.- Nested And Multiplex Real Time PCR Using Dual-Labeled Probes: Detecting And Discriminating Mycobacterium Tuberculosis Complex Members In Cultures And Animal Tissues.- A Real-Time PCR Assay For The Diagnosis Of Gastrointestinal Nematode Infections of Small Ruminants.- Improved Detection Of Mycobacterium Bovis In Bovine Tissues Using Immunomagnetic Separation Approaches.- Detection Of Fish Pathogens By Loop-Mediated Isothermal Amplification (LAMP) Technique.- Direct Detection Of Theileria Annulata In Bovine Blood Samples Using Standard And Isothermal DNA Amplification Approaches.- Reverse Line Blot Hybridization With Species-Specific Oligonucleotide Probes: Application To Piroplasms Detection. [...]

Field of interest
Infectious Diseases

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. X, 490 p. 53 illus., 38 illus. in color. (Methods in Molecular Biology, Volume 1247) Hardcover
► ***€ (D) 133,74 | € (A) 137,49 | sFr 166,50**
► **€ 124,99 | £112.50**
ISBN 978-1-4939-2003-7

B. K. Das, Utkal Institute of Medical Sciences, Bhubaneswar, India (Ed)

Positron Emission Tomography

A Guide for Clinicians

Features

► Covers the technical aspects of PET and PET-CT for better understanding of the images and the information ► Highlights the difference between images obtained from CT and MRI in the perspective of clinical importance ► Describes and justifies indication for PET imaging in different cancer types ► Written by top experts working at state-of-the-art high-volume institutions

Contents

Positron Emission Tomography (PET) – an overview.- Development of Positron Emission Tomography (PET) - A historical prospective.- Planning of a PET Facility in India.- PET in comparison with other imaging modalities.- Technical considerations during PET imaging .- Application of PET in Oncology (Overview).- Application of PET in Neurology (Overview).- Application of PET in Cancer of the Brain .- Application of PET in Cancer of the Naso-Pharynx .- Application of PET in Cardiology.- Application of PET in Breast Cancer.- Application of PET-CT in lung cancer-The Current Status and Future Potentials.- Application of PET in Cancer of Gastro-Intestinal System .- Application of PET in Cancer of the Genito-Urinary System .- Application of PET in Cancer of the Endocrine Organs.- Application of PET in Cancer of the Bone and Bone Marrow.- Application of PET in Infection and inflammation .- Application of PET in therapy planning.- Basic principles and functional aspects of a medical Cyclotron.- Basic principles of CT Imaging.- Fundamentals of MRI Imaging.- Comparison of PET-CT with PET-MRI.

Field of interest
Imaging / Radiology

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. X, 108 p. 115 illus., 93 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-81-322-2097-8

T. F. Davies, Mount Sinai School of Medicine Dept. Medicine, New York, NY, USA (Ed)

A Case-Based Guide to Clinical Endocrinology

Contents

1: Pituitary.- Overview: The role of medical therapy for secretory pituitary adenomas: current practices and new therapeutics.- Acromegaly, awareness is paramount for early diagnosis: highlights of diagnosis and treatment challenges.- A non-traumatic hip fracture in a young woman: Cushing's disease—consequences of a late diagnosis and treatment highlights.- Section 2: Thyroid overactivity.- Introduction.- TSH-Secreting Pituitary.- Struma Ovarii.- Exogenous Thyrotoxicosis.- Section 3: Thyroid underactivity.- Thyroid Underactivity: Introduction.- Central Hypothyroidism.- Treatment of hypothyroidism – Utility of adding T3 (liothyronine).- Hypothyroidism in Pregnancy.- Hypothyroid myopathy and thelogen effluvium.- Section 4: Thyroid cancer.- Introduction on Thyroid Chapters.- Approach to the Patient with an Incidentally Discovered Thyroid Nodule.- Papillary Thyroid Cancer.- Metastatic papillary thyroid cancer.- Management of Metastatic Medullary Thyroid Cancer.- Thyroid cancer and bone metastases.- Section 5: Adrenal.- Primary aldosteronism.- Adrenal Incidentaloma and Subclinical Hypercortisolism.- A Case of Pheochromocytoma.- Section 6: Hyperparathyroidism.- Introduction: Parathyroid Disorders.- Complex hyperparathyroidism.- Differential diagnosis of hypocalcemia.- Management of hypoparathyroidism.- Osteomalacia and primary hyperparathyroidism.- Section 7: Metabolic bone diseases.- Advances and challenges in the management of Osteoporosis.- Multiple Risk Factors for Osteoporosis and Fracture.- Delayed Diagnosis of Osteoporosis. [...]

Fields of interest
Endocrinology; Diabetes; General Practice / Family Medicine

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2nd ed. 2015. X, 590 p. 31 illus., 18 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4939-2058-7

T. R. Deer, The Center for Pain Relief, Charleston, WV, USA; **M. S. Leong,** Stanford Pain Management Center, Redwood City, CA, USA; **A. L. Ray,** The LITE Center, South Miami, FL, USA (Eds)

Treatment of Chronic Pain by Integrative Approaches

the AMERICAN ACADEMY of PAIN MEDICINE Textbook on Patient Management

Contents

1. Pain as a Perceptual Experience.- 2. Neuroplasticity, Sensitization, and Pain.- 3. Muscle Pain Treatment.- 4. Addictive Disorders and Pain.- 5. The "Five-Minute" Mental Status Examination of Persons with Pain.- 6. The Psychological Assessment of Patients with Chronic Pain.- 7. Psychological Therapies.- 8. Billing Psychological Services for Patients with Chronic Pain.- 9. Hypnosis and Pain Control.- 10. Acupuncture.- 11. Manual Therapies.- 12. Treatment of Chronic Painful Musculoskeletal Injuries and Diseases with Regenerative Injection Therapy (RIT): Regenerative Injection Therapy Principles and Practice.- 13. Interdisciplinary Functional Restoration and Pain Programs.- 14. Pain and Spirituality.- 15. Pain Disparity: Assessment and Traditional Medicine.- 16. Sleep and Chronic Pain.- 17. Empowerment: A Pain Caregiver's Perspective.- 18. Patient and Caregiver's Perspective.- 19. Pain Medicine in Older Adults: How Should It Differ?.- 20. Pain Medicine and Primary Care: The Evolution of a Population-Based Approach to Chronic Pain as a Public Health Problem.- 21. Pain Care Beyond the Medical Practice Office: Utilizing Patient Advocacy, Education, and Support Organizations.- 22. Neonatal Pain.- 23. Assessing Disability in the Pain Patient.- 24. The Double Effect: In Theory and in Practice.- 25. Failure to Treat Pain.

Fields of interest

Pain Medicine; Psychiatry; Complementary & Alternative Medicine

Target groups

Professional/practitioner

Product category

Professional book

Due December 2014

2014. XX, 315 p. 137 illus., 77 illus. in color. Softcover
► **approx. *€ (D) 71,68 | € (A) 73,69 | sFr 88,00**
► **approx. € 66,99 | £59.99**
ISBN 978-1-4939-1820-1

T. R. Deer, The Center for Pain Relief, Inc., Charleston, WV, USA; **M. S. Leong,** Stanford Pain Management Center, Redwood City, CA, USA; **A. Buvanendran,** Rush Medical Center, Chicago, IL, USA; **P. S. Kim,** Center for Interventional Pain & Spine, Newark, DE, USA; **S. J. Panchal,** National Institute of Pain, Tampa, FL, USA (Eds)

Treatment of Chronic Pain by Interventional Approaches

the AMERICAN ACADEMY of PAIN MEDICINE Textbook on Patient Management

Contents

Part I. Anatomy and Physiology of Pain.- 1. Neuroanatomy and Neurophysiology of Pain.- 2. Spinal Targets for Interventional Pain Management.- 3. Functional Anatomy and Imaging of the Spine.- Part II. Neural Blockade and Neurolysis Blocks.- 4. Local Anesthetics.- 5. Neurolytic Agents.- 6. Cryoanalgesia.- 7. Radiofrequency: Conventional and Pulsed.- 8. Atlanto-Axial and Atlanto-Occipital Joints Injection in the Treatment of Headaches and Neck Pain.- 9. Sphenopalatine Ganglion Block.- 10. Occipital Nerve Block.- 11. Neural Blockade for Trigeminal Neuralgia.- 12. Glossopharyngeal Nerve Block.- 13. Cervical Plexus Block.- 14. Stellate Ganglion Blockade.- 15. Epidural (Cervical, Thoracic, Lumbar, Caudal) Block/Injections.- 16. Transforaminal Epidural Steroid Injections.- 17. Facet Injections and Radiofrequency Denervation.- 18. Intercostal Nerve Blocks.- 19. Intrapleural Catheters.- 20. Epidural Lysis of Adhesions: Percutaneous and Endoscopic Techniques.- 21. Thoracic and Lumbar Sympathetic Nerve Block and Neurolysis.- 22. Celiac Plexus, Splanchnic Nerve Block, and Neurolysis.- 23. Superior Hypogastric Plexus, Ganglion Impar Blocks, and Neurolysis.- 24. Peripheral Neurolysis.- 25. Central Neuraxial Neurolysis.- 26. Provocative Discography. [...]

Fields of interest

Pain Medicine; Sports Medicine; Anesthesiology

Target groups

Professional/practitioner

Product category

Professional book

Due December 2014

2014. XX, 530 p. 137 illus., 77 illus. in color. Softcover
► **approx. *€ (D) 71,68 | € (A) 73,69 | sFr 88,00**
► **approx. € 66,99 | £59.99**
ISBN 978-1-4939-1823-2

T. R. Deer, The Center for Pain Relief, Inc., Charleston, WV, USA; **M. S. Leong,** Stanford Pain Management Center, Redwood City, CA, USA; **V. Gordin,** Pennsylvania State University, Hershey, PA, USA (Eds)

Treatment of Chronic Pain by Medical Approaches

the AMERICAN ACADEMY of PAIN MEDICINE Textbook on Patient Management

Features

► Authoritative information from world class experts of the American Academy of Pain Medicine ► Clinically focused resource on the medical management of chronic pain ► Leading edge topics, such as monitoring opioid use and abuse, the emerging role of cannabinoids in pain treatment, and nociceptive processing systems

Contents

1. A Survey of Systems Involved in Nociceptive Processing.- 2. Pharmacogenomics of Pain Management.- 3. Nonsteroidal Anti-inflammatory Drugs.- 4. The Role of Antidepressants in the Treatment of Chronic Pain.- 5. Anticonvulsant Medications for Treatment of Neuropathic and "Functional" Pain.- 6. NMDA Receptor Antagonists in the Treatment of Pain.- 7. Role of Muscle Relaxants in the Treatment of Pain.- 8. Topical Analgesics.- 9. Sleep Aids.- 10. Clinical Use of Opioids.- 11. Opioid Adverse Effects and Opioid-Induced Hypogonadism.- 12. Acute Management of the Opioid-Dependent Patient.- 13. Opioids and the Law.- 14. Methadone for Chronic Pain.- 15. Toxicology Screening for Opioids.- 16. Monitoring Drug Use and Abuse: The Evolution of a Paradigm.- 17. Polypharmacy and Drug Interaction.- 18. Role of Cannabinoids in Pain Management.- 19. The Future of Pain Pharmacotherapy.

Fields of interest

Pain Medicine; Neurology; Psychiatry

Target groups

Professional/practitioner

Product category

Professional book

Due January 2015

2014. XX, 210 p. 137 illus., 77 illus. in color. Softcover
► **approx. *€ (D) 71,68 | € (A) 73,69 | sFr 88,00**
► **approx. € 66,99 | £59.99**
ISBN 978-1-4939-1817-1

S. V. Delgado, Cincinnati Children's Hospital, Cincinnati, OH, USA; **J. R. Strawn,** University of Cincinnati, Cincinnati, OH, USA; **E. V. Pedapati,** Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Contemporary Psychodynamic Psychotherapy for Children and Adolescents

Integrating Intersubjectivity and Neuroscience

Contents
Introduction.- Traditional One-Person Psychology.- Two-Person Relational Psychology for the Child and Adolescent Psychotherapist.- Key Pioneers in Two-Person Relational Psychology.- Key Concepts in Two-Person Relational Psychology.- Deconstruction of Traditional One-Person Psychology Concepts.- The Neurodevelopmental and Neurofunctional basis of Intersubjectivity.- Putting it together: The 4 Pillars of the Contemporary Diagnostic Interview.- Setting the Frame in Two-Person Relational Psychotherapy.- Two-Person Relational Psychotherapy – Infants and Preschool Age Children.- Two-Person Relational Psychotherapy Elementary School Age Youth.- Two-Person Relational Psychotherapy Middle School Age Youth.- Two-Person Relational Psychotherapy -- High School Age Adolescents.- Supervision in Two-Person Relational Psychotherapy.- Appendix A: Developmental Milestones.-Appendix B: Contemporary Diagnostic Interview Case Formulation Tool.

Fields of interest
Psychotherapy; Psychotherapy and Counseling; Neurology

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. Approx. 300 p. 30 illus., 20 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-642-40519-8

J. Dines, D. Altchek, Hospital for Special Surgery, New York, NY, USA (Eds)

Elbow Ulnar Collateral Ligament Injury

A Guide to Diagnosis and Treatment

Contents
Clinically Relevant Elbow Anatomy and Surgical Approaches.- Ulnar Collateral Ligament: Throwing Biomechanics.- Valgus Extension Overload.- Ulnohumeral Chondral and Ligamentous Overload.- Epidemiology of Elbow Ulnar Collateral Ligament Injuries.- History and Physical Exam on the Thrower's Elbow.- Radiographic Imaging of the Elbow.- MR Imaging in Patients with Ulnar Collateral Ligament Injury.- Ultrasound Imaging of Ulnar Collateral Ligament Injury.- The Conservative Treatment of Ulnar Collateral Ligament Injuries.- Injections Including Platelet Rich Plasma.- Ulnar Collateral Ligament Reconstruction: Graft Selection and Harvest Technique.- Primary Repair of Ulnar Collateral Ligament Injuries of the Elbow.- The Role of Arthroscopy in Athletes with Ulnar Collateral Ligament Injuries.- Biomechanics of Reconstruction Constructs.- Figure of 8 Technique and Outcomes.- Ulnar Collateral Ligament Reconstruction: Docking Technique.- American Sports Medicine Institute Techniques and Outcomes.- Ulnar Collateral Ligament Reconstruction: Alternative Surgical Techniques.- Combined Flexor-Pronator Mass and Ulnar Collateral Ligament Injuries.- Ulnar Nerve Issues in Throwing Athletes.- Revision Ulnar Collateral Ligament Reconstruction.- Ulnar Collateral Ligament Injuries in High School-Aged Athletes.- Ulnar Collateral Ligament Injury in Female Athletes.- Complications of Ulnar Collateral Ligament Repair.- Sports Specific Outcomes for Ulnar Collateral Ligament Reconstruction.- Rehabilitation of the Overhead Athlete's Elbow. [...]

Fields of interest
Sports Medicine; Orthopedics; Rehabilitation

Target groups
Professional/practitioner

Product category
Professional book

Due December 2014

2014. X, 450 p. 271 illus., 150 illus. in color. With online files/update. Hardcover
► **approx. *€ (D) 117,69 | € (A) 120,99 | sFr 147,00**
► **approx. € 109,99 | £99.50**
ISBN 978-1-4899-7539-3

R. N. Eskander, University of Calfornia, Irvine Irvine Medical Center, Orange, CA, USA; **R. E. Bristow,** University of California, Irvine Irvine Medical Center, Orange, CA, USA (Eds)

Gynecologic Oncology

A Pocketbook

During this age of advanced technology, there is an incredible amount of dynamic literature surrounding the diagnosis and treatment of gynecologic cancers. Despite this information surplus, house officers and junior faculty studying gynecologic oncology indicate a need for a reliable, easily accessible, streamlined resource for everyday use. Gynecologic Oncology: A Pocketbook is a collaborative effort that combines the perspectives of expert faculty and fellows in training in the field of gynecologic oncology. Not only is it incredibly portable, but the format in which the information is presented (bullet point, outline, tables and diagrams) allows for rapid access to valuable information and is unique amongst existing texts.

Features
► Unique format unlike anything else on the market ► Tables, diagrams, and bulleted lists are included throughout the book ► Streamlined, concise text

Contents
Section 1: Disease Sites.- Epithelial Ovarian Cancer, Low Malignant Potential and Sex Cord Stromal Tumors of the Ovary.- Cervical Cancer.- Cancer of the Vulvar and Vagina.- Uterine Corpus Cancers.- Gestational Trophoblastic Disease.- Section 2: Chemotherapy.- Chemotherapy for Gynecologic Cancer.- Section 3: Radiation Therapy.- Radiation Therapy in Gynecologic Cancer.- Section 4: Critical Care.- Critical Care.- Section 5: Palliative Care.- Palliative Care.

Fields of interest
Gynecology; Oncology; Surgery

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XX, 460 p. 27 illus., 22 illus. in color. Softcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4939-1975-8

S. H. Faro, F. B. Mohamed, Temple University, Philadelphia, PA, USA (Eds)

Functional BOLD MRI

Principles and Applications

Contents
Part I: BOLD Functional MRI: Physical Principles.- Principles of BOLD Functional MRI.- fMRI Scanning Methods.- Experimental Design and Data Analysis for fMRI.- Challenges in fMRI and Its Limitations.- Neurovascular Uncoupling in Functional MR Imaging.- Functional Connectivity MR Imaging.- Clinical Challenges of Functional MRI.- Part II: Neuroanatomical Atlas.- Neuroanatomical Atlas of Key Presurgical and Cognitive Eloquent Cortex Regions.- Part III: BOLD Functional MRI: Clinical Applications.- fMRI of Language Systems: Methods and Applications.- Functional MRI Studies of Memory in Aging, Mild Cognitive Impairment, and Alzheimer's Disease.- fMRI Wada Test: Prospects for Presurgical Mapping of Language and Memory.- fMRI of Human Visual Pathways.- Brain Mapping for Neurosurgery and Cognitive Neuroscience.- Pediatric Applications of fMRI. - fMRI of the Central Auditory System.- fMRI of Epilepsy.- Applications of fMRI to Psychiatry.- Applications of fMRI to Neurodegenerative Disease.- Applications of MRI to Psychopharmacology.- Functional MRI: Cognitive Neuroscience Applications.- Part IV: fMRI Paradigms.- fMRI Paradigms.

Fields of interest
Diagnostic Radiology; Neuroradiology; Neurology

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

Only available in print

2015. 550 p. 175 illus., 136 illus. in color. Softcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4939-1994-9

K. C. Ferdinand, Tulane University School of Medicine, New Orleans, LA, USA (Ed)

Hypertension in High Risk African Americans

Current Concepts, Evidence-based Therapeutics and Future Considerations

Contents
Overview.- Epidemiology Awareness, Prevalence, and Control: Newest Findings on Hypertension in Blacks.- Therapeutic Lifestyle Changes to Decrease Unhealthy Eating Patterns and Improve Blood Pressure in African Americans.- Community Programs for Hypertension: A Means of Identification and Intervention in the Highest Risk Population.- Stroke and Hypertension in High Risk African Americans.- Manifestations of Left Ventricular Hypertrophy and Coronary Heart Disease: The Contribution of Hypertension and the Paradox in Blacks.- Heart Failure Morbidity, Mortality and its Relationship to Hypertension.- Hypertension and Atrial Fibrillation in African Americans.- Cardiorenal Metabolic Syndrome and Diabetes in African Americans: Adding to the Risk of Hypertension.- Central Aortic Pressure, Arterial Compliance: Emerging Tools to Identify and Guide Therapy for High Risk African American Patients.- Renal Denervation Therapy and Baroreceptor Activation Therapy: Emerging Tools for Treating Resistant Hypertension.- Practical Approaches to Promote Adherence and Improve Blood Pressure Control in Black Patients.- Integration of a Team Approach to Hypertension Treatment.- Practical Pearls in the Treatment of Hypertension in Blacks.- Hypertension in African Americans.- New Guideline Recommendations on Hypertension: Preventing CVD and Renal Disease with Applications to Blacks.

Fields of interest
Cardiology; Diabetes; Health Promotion and Disease Prevention

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XII, 312 p. 17 illus., 9 illus. in color. (Clinical Hypertension and Vascular Diseases) Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-1-4939-2009-9

P. Ferrada, West Hospital Virginia Commonwealth University, Richmond, VA, USA (Ed)

Ultrasonography in the ICU

Practical Applications

This text presents a basic guide of the principles and applications of ultrasound in the critical care setting.

Features
► This book can be used as a teaching tool for critical care fellows and residents interested in further training in ultrasound for the critically ill patient ► The text addresses the basic and clinical uses of ultrasound including clinical cases at the end of each of the 7 sections of clinical subdivisions ► Each chapter is written by experts in the field, and supplemented with illustrations and links to videos of actual ultrasound examinations in patients

Contents
I. Basics of Ultrasound.- 1. The Machine.- 2. Frequency and probes.- 3. Common Artifacts.- 4. The Doppler Effect.- II. Thoracic Ultrasound.- 5. The Pleura.- 6. The Lung.- 7. Procedures.- 8. Cases.- III. Echocardiogram for the Intensivist.- 9. Rationale.- 10. Limited echocardiogram vs. full service echo.- 11. The Windows.- 12. The Measurements.- 13. The interpretation.- 14. Cases.- IV. Vascular Ultrasound in the Critically Ill.- 15. Deep Venous Thrombosis.- 16. Line Placement.- 17. Cases.- V. Basic Abdominal Ultrasound in the ICU.- 18. Evaluation for free fluid.- 19. Basic Renal ultrasound.- 20. Evaluation of the Gallbladder.- 21. Procedures.- 22. Cases.- VI. Soft Tissue.- 23. Facial Dehiscence.- 24. Soft tissue masses and collections.- VII. Other Issues.- 25. Training Challenges.- 26. Credentialing Process.- 27. Billing and Coding.

Fields of interest
General Surgery; Intensive / Critical Care Medicine; Emergency Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due March 2015

2015. 260 p. 70 illus., 50 illus. in color. With online files/update. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 128,50**
► **approx. € 99,99 | £87.00**
ISBN 978-3-319-11875-8

N. Fukami, University of Colorado, Denver, Aurora, CO, USA (Ed)

Endoscopic Submucosal Dissection

Principles and Practice

Contents
History of ESD.- Indications of ESD in the Upper Gastrointestinal Tract.- Indication for Colorectal ESD.- Role of EUS on Preoperative Staging of Gastric Cancer for ESD.- Advanced Endoscopic Imaging in the Upper Gastrointestinal Tract.- Advanced Endoscopic Imaging in the Lower Gastrointestinal Tract.- Injection Material for ESD - Eastern Perspective.- Submucosal Fluid Cushion Injection Fluid - Western Perspective.- Electrocautery.- Endoscopic Submucosal Dissection for Superficial Esophageal Cancer.- ESD Technique: Stomach.- Endoscopic Submucosal Dissection Technique: Colorectum.- How to Conquer Difficult ESD: Duodenum, Fibrosis, and More.- Prevention of Stricture Formation after Esophageal Endoscopic Submucosal Dissection.- Regenerative Medicine for Stricture Management: What does the Future Hold?.- Prevention, Identification, and Treatment of Hemorrhage.- Management of Gastrointestinal EMR & ESD perforation: From Lab to Practice.- Identification, Treatment, and Prevention of Complications: Perforation in the Upper Gastrointestinal Tract.- Prevention, Identification, and Treatment of Perforation in the Lower Gastrointestinal Tract.- Post-resection surveillance.- POEM.- ESD Expansion: NOTES – Eastern perspective.- ESD Expansion: NOTES – The Western Perspective.- ESD Training in the East.- ESD training in Western Countries.

Fields of interest
Gastroenterology; Colorectal Surgery; Abdominal Surgery

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XII, 455 p. 123 illus., 111 illus. in color.
Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-1-4939-2040-2

J. P. Girvin, Western University, London, ON, Canada

Operative Techniques in Epilepsy

This book describes the specific surgical techniques currently employed in patients with intractable epilepsy; it also covers the relevant technical aspects of general neurosurgery. All of the approaches associated with the various foci of epilepsy within the cerebral hemispheres are considered, including temporal and frontal lobectomies and corticectomies, parietal and occipital lobe resections, corpus callosotomy, hemispherectomy, and multiple subpial incisions. In addition, an individual chapter is devoted to electrocortical stimulation and functional localization of the so-called eloquent cortex.

Features
► Describes in detail the surgical procedures employed in patients with intractable epilepsy ► Explains functional localization of the eloquent cortex ► Covers relevant general aspects including the use of bipolar coagulation and performance of surgery under local anesthesia

Contents
Surgical techniques in epilepsy surgery.- Surgery under local anesthesia.- Electrocortical stimulation ("mapping").- Corticectomy.- Temporal lobe surgery.- Frontal lobe surgery.- Rolandic surgery.- Parietal lobe resections.- Occipital lobe resections.-Corpus Callosotomy.-Hemispherectomy.-Post-operative course.- History of epilepsy surgery.

Fields of interest
Neurosurgery; Neurology

Target groups
Professional/practitioner

Product category
Monograph

Due February 2015

2014. Approx. 310 p. 170 illus., 10 illus. in color.
Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-10920-6

W. Gong, Zhejiang University, Hangzhou, China (Ed)

Rodent Transplant Medicine

This book introduces transplantation in rodents as useful tools used in studying transplant immunobiology. Several solid organs (kidney, heart, liver) transplant models in rodents are described in this book. It can help surgical quality and save surgical time. The first part of the book provides a review of rodent transplant tolerance induction, the role of gender and body-weight in rodent transplantation, surgical instruments and organ preservation solutions. In the second part of the book, various organ-transplantation techniques in rodents are discussed in individual chapters. This book presents uniform surgical procedures in mouse and rats, which produce comparable data, efficiently enhancing the translational research from bench to non-human primates and beyond.

Features
► Describes useful tools for promoting the development of transplant immunology and microsurgical techniques ► Step by step illustration of surgical procedures in mouse and rat ► Enhance the translational research from bench to non-human primate and beyond

Contents
Rodent Transplantation Medicine.- T Cell Costimulatory Molecules.- Age in Rodent Organ Transplantation.- Role of Gender in Animal Transplantation.- Role of Body-Weight/Functioning Mass of Graft in Rodent Transplantation .- Illustration of Laboratory Facilities and Microsurgical Instruments.- Organ Preservation.- Rat Kidney Transplantation.- Rat Orthotopic Liver Transplantation.- Mouse Skin Transplantation.- Mouse Heterotopic Abdominal Heart Transplant Model.- Mouse Heterotopic Cervical Heart Transplant Model.- Mouse kidney Transplantation.- Mouse Liver Transplantation.

Fields of interest
Transplant Surgery; Animal Models; Immunology

Target groups
Professional/practitioner

Product category
Contributed volume

Due October 2014

2015. XV, 187 p. 83 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-94-017-9471-8

M. F. Holick, Boston University Medical Center, Boston, MA, USA; **J. W. Nieves,** Columbia University, New York, NY, USA (Eds)

Nutrition and Bone Health

Contents
Part I. Basics of Nutrition and Bone Biology.- 1. Bone Health From An Evolutionary Perspective: Development In Early Human Populations.- 2. Gene-Diet Interactions On Bone.- 3. Bone Physiology: Bone Cells, Modeling, and Remodeling.- 4. Estrogens, Progestins, SERMs and Osteoporosis.- 5. Bone Biomechanics and the Determinants of Skeletal Fragility.- 6. Clinical and Research Applications of Bone Mineral Density Examinations.- 7. Nutritional Epidemiology: Nutritional Assessment and Analysis.- 8. Dietary Pattern Analysis in Nutritional Science Research: A Review of Current Evidence Relating Dietary Patterns to Indices of Bone Health and Fracture Risk.- 9. Nutrition and Oral Bone Status.- 10. Nutrition Counseling for Skeletal Health.- Part II. Nutrition and Bone: Effects of Life Stages and Race.- 11. Nutrition in Pregnancy and Lactation.- 12. Nutritional Requirements for Fetal and Neonatal Bone Health and Development.- 13. Nutrition and Bone Health During Skeletal Modeling and Bone Consolidation of Childhood and Adolescence.- 14. Calcium and Vitamin D for Bone Health in Adults.- 15. Nutrition: to supplement or not to supplement the elderly.- 16. Nutrition and Skeletal Health in Blacks.- 17. Nutrition and Skeletal Health in Other Racial/Ethnic Groups.- Part III. Effects of Dietary Macronutrients.- 18. Food Groups and Bone Health.- 19. Vegetarianism and Bone Health in Women.- 20. Protein intake and bone health.- 21. Fat and Bone.- 22. Acid-Base Balance and Bone Health.- Part IV. Minerals.- 23. Quantitative Clinical Nutrition Approaches to the Study of Calcium and Bone Metabolism.- 24. Sodium, Potassium, Phosphorus, and Magnesium. [...]

Fields of interest
Clinical Nutrition; Nutrition; Orthopedics

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2nd ed. 2015. X, 870 p. 154 illus., 18 illus. in color. (Nutrition and Health) Hardcover
► ***€ (D) 203,29 | € (A) 208,99 | sFr 253,00**
► **€ 189,99 | £171.00**
ISBN 978-1-4939-2000-6

Y. Ishigatsubo, Yokohama City University Graduate School of Medicine, Yokohama, Japan (Ed)

Behçet's Disease

From Genetics to Therapies

Although the cause of Behçet's disease is still unknown, it is well known that genetic factors, such as HLA-B51, are involved in the development of the disease. Recently, novel susceptibility loci including IL10, IL23R-IL12RB2, and endoplasmic reticulum amino-peptidase 1 have been identified, providing new insights into the pathogenesis of the disease. In addition to basic research, the beneficial efficacy of anti-TNF-alpha monoclonal antibodies has also been suggested for not only uveitis associated with the disease but also other subtypes of the disease such as entero-, vasculo-, and neuro- Behçet's disease. This book, besides reviewing basic and clinical aspects, covers the latest findings, including genetic studies and treatment with biologics for Behçet's disease.

Features
► Provides comprehensive information on Behçet's disease ► Covers the latest findings, including genetic studies and treatment ► An essential resource for both basic researchers and clinical physicians

Contents
1. Overview.- 2. The Immunopathology of Behcet's Disease.- 3. Genetics.- 4. Ocular Involvement.- 5. Vascular Involvement of Behçet's Disease.- 6. Neurological Involvement.- 7. Gastrointestinal Involvement.- 8. Mucocutaneous Manifestations.- 9. Perspective.

Fields of interest
Rheumatology; Allergology; Dermatology

Target groups
Professional/practitioner

Product category
Contributed volume

Due February 2015

2015. Approx. 180 p. 35 illus., 10 illus. in color. Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-4-431-54486-9

B. H. Jeng, University of Maryland School of Medicine, Baltimore, MD, USA (Ed)

Advances in Medical and Surgical Cornea

From Diagnosis to Procedure

This book presents up-to-date information on the diagnosis and management of the spectrum of medical and surgical corneal diseases, with a special focus on new technology. The latest tools for diagnosing ocular surface disease, infectious keratitis, and ocular allergies are discussed, along with novel treatment options for these entities.

Features
► Presents up-to-date information on the diagnosis and management of medical and surgical corneal diseases ► Focuses especially on the impact of new technology ► Describes and discusses the latest surgical techniques

Contents
Diagnosis and treatment of ocular surface disease.- Diagnosis and treatment of infectious keratitis (PCR, Confocal).- Diagnosis and treatment of ocular allergies.- Imaging techniques for corneal disorders (non-infectious: KCN, ectasias: Pentacam, Schleimpflug, confocal, etc).- Contact lens technology for treatment of severe ocular surface disease and corneal ectasias.- Collagen crosslinking for keratoconus.- Anterior lamellar keratoplasty.- Endothelial keratoplasty (DSEK and DMEK).- Keratoprosthesis (Boston and OOKP).- Laser assisted keratoplasty and post-keratoplasty management (AK's).- Eye Banking: what the eye bank can do for you now (DMEK harvesting, Precut, FLAK).

Field of interest
Ophthalmology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2014. X, 176 p. 64 illus., 56 illus. in color. (Essentials in Ophthalmology) Hardcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-3-662-44887-8

S. S. Jonnalagadda, Saint Luke's Health System, Kansas City, MO, USA (Ed)

Gastrointestinal Endoscopy

Technologies and Changing Paradigms for Disease Management

This comprehensive treatise on cutting edge tools and research provides a fascinating insight into the rapidly evolving field of diagnostic and therapeutic endoscopy. Accomplished international researchers and clinicians discuss the latest endoscopic advances in diverse areas including obesity, metabolic syndromes, management of peripancreatic fluid collections, endoluminal suturing techniques, fistula closure, management of Barrett's epithelium, cholangioscopy, chromoendoscopy, and high resolution manometry. Robotic endoscopy and natural orifice transluminal endoscopic surgery are also explored.

Features
► Written by specialists in their respective fields ► Richly illustrated with photos and illustrations ► A comprehensive treatise on cutting edge tools

Contents
Barrett's Esophagus.- Cholangioscopy.- Endoscopic Management of Peripancreatic Fluid Collections and Walled-Off Pancreatic Necrosis.- Bariatric Endoscopy.- Advances in Imaging and Evaluation of the Small Bowel and Colon.- High-Resolution Manometry.- Endoluminal Fistula and Perforation Closure.- Advances in EUS.- Endoscopic Submucosal Dissection.- Colon Widefield EMR.

Fields of interest
Gastroenterology; Minimally Invasive Surgery; Oncology

Target groups
Professional/practitioner

Product category
Contributed volume

K. Kansaku, National Rehabilitation Center for Perso, Tokorozawa, Japan; **L. G. Cohen,** National Institute of Neurological Disor National Institutes of Health, Bethesda, MD, USA; **N. Birbaumer,** Universität Tübingen Medizinische Fak., Tübingen, Germany (Eds)

Clinical Systems Neuroscience

Contents
Brain-Machine Interfaces in Stroke Neurorehabilitation.- Practical Noninvasive Brain–Machine Interface System for Communication and Control.- How Many People Can Use a BCI System?.- Motor Control Theory and Brain Machine Interfaces.- Electrocorticographic Brain Machine-Interfaces for Motor and Communication Control.- Theoretical Basis for Closed-Loop Stimulation as a Therapeutic Approach to Brain Injury.- Large-Scaled Network Reorganization During Recovery from Partial Spinal Cord Injury.- Reconstruction and Tuning of Neural Circuits for Locomotion after Spinal Cord Injury.- The Cognitive Neuroscience of Incorporation: Body Image Adjustment and Neuroprosthetics.- Body Representation and Neuroprosthetics.- Using Image Adjustments for Producing Human Motor Plasticity.- Engineering Approach for Functional Recovery based on Body Image Adjustment by using Biofeedback of Electrical Stimulation.- Chronic Pain and Body Experience – Neuroscientific Basis and Implications for Freatment.- Motor Control of the Hand Before and After Stroke.- Effects of Successful Experience and Positive Feedback on Learning and Rehabilitation.- Context-Dependent Formation and Retrieval of Human Motor Memories.- Real-Time Magnetoencephalography for Neurofeedback and Closed-Loop Experiments.- Changes in Human Brain Networks and Spontaneous Activity Caused by Motor and Cognitive Learning.- Visual Perceptual Learning and Sleep. [...]

Fields of interest
Neurology; Rehabilitation; Human Physiology

Target groups
Professional/practitioner

Product category
Monograph

L. Kapural, Professor of Anesthesiology, Wake Forest University, School of Medicine, Winston-Salem, NC, USA (Ed)

Visceral Abdominal Pain

An Evidence-Based, Comprehensive Guide to Clinical Management

Contents
Etiology and Mechanisms of Chronic Abdominal Pain.- The Epidemiology of Chronic Abdominal Pain.- Establishing Diagnosis of Chronic Abdominal Pain: Gastroenterologist View.- Establishing Diagnosis of Chronic Abdominal Pain: Pain Medicine view.- Lessons Learned from Visceral Sensory Stimulation: Implications for Treatment of Chronic Abdominal Pain.- Abdominal Pain in Irritable Bowel Syndrome (IBS).- Gastroparesis: Pathophysiology of Chronic Abdominal Pain and Current Treatment.- Chronic Pain Due to Post-surgical Intra-Abdominal Adhesions: Therapeutic Options.- Chronic Pancreatitis with or without Acute Exacerbations: Novel Options for Pain Control.- Chronic Abdominal Pain of Gynecologic Causes: Diagnosis and Treatment.- Pediatric Chronic Abdominal Pain: Etiology, Diagnosis and Treatment.- Interventional Treatment of Chronic Abdominal Pain in Children.- Cancer-Related Abdominal Pain.- Opioids in Abdominal Pain.- Sympathetic Blocks for Chronic Abdominal Pain.- Radiofrequency and Neurolysis for the Treatment of Chronic Visceral Abdominal Pain.- Regional Anesthesia for Abdominal/Truncal Pain.- Chronic Abdominal Wall Pain: Diagnosis and Interventional Treatment.- Spinal Cord Stimulation for Chronic Abdominal Pain.- Peripheral Nerve Stimulation for Chronic Abdominal Pain.- Gastric and other Visceral Stimulation for Chronic Painful Gastrointestinal Motility Disorders.- Intrathecal Therapy for Non-malignant and Malignant Abdominal Pain. [...]

Fields of interest
Pain Medicine; Anesthesiology; Gastroenterology

Target groups
Professional/practitioner

Product category
Contributed volume

Due March 2015

2014. 232 p. 89 illus., 64 illus. in color. Hardcover
► **approx. *€ (D) 128,39 | € (A) 131,99 | sFr 157,00**
► **approx. € 119,99 | £106.50**
ISBN 978-1-4939-2031-0

Due December 2014

2015. 180 p. 100 illus., 30 illus. in color. Hardcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-4-431-55036-5

Due November 2014

2015. XX, 690 p. 87 illus., 46 illus. in color. Hardcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-1-4939-1991-8

M. Karahan, Acibadem University School of Medicine, Istanbul, Turkey; **G. M. Kerkhoffs,** Academic Medical Centre Amsterdam University of Amsterdam, Amsterdam, The Netherlands; **P. Randelli,** Policlinico San Donato, San Donato Milanese, Italy; **G. J. Tuijthof,** Delft University of Technology, Delft, The Netherlands (Eds)

Effective Training of Arthroscopic Skills

Features
► Provides evidence-based guidelines that will help the reader to effectively implement new training tools ► Describes training strategies directly applicable in clinical practice ► Written by acknowledged world experts in the topics discussed

Contents
Obstacles faced in the classical training system; Why is there a need for newer systems?- Needs and wishes from the arthroscopic community? Simulation: Traditional wet labs (animal and human cadavers) including industry involvement.- Box trainers & anatomic bench models.- Virtual reality simulators.- Simulator Validation.- Guidelines for use of simulators. Objective performance tracking: Psychomotor learning applied to arthroscopy.- What measures represent performance?- What thresholds are evidence-based?- Preclinical training strategies.- Guidelines for preclinical performance tracking. Monitoring training in the OR: Theory on learning strategies applied to arthroscopy.- Global rating scales.- (Video) tools for objective monitoring in OR.- Guidelines for use in OR.- Concluding remarks.

Fields of interest
Surgical Orthopedics; Sports Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XX, 158 p. 46 illus., 31 illus. in color. Hardcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-662-44942-4

R. Kozarek, M. Chiorean, Virginia Mason Medical Center, Seattle, WA, USA; **M. Wallace,** Mayo Clinic, Jacksonville, FL, USA (Eds)

Endoscopy in Inflammatory Bowel Disease

Contents
The Evaluation, Diagnosis, and Treatment of Inflammatory Bowel Diseases over the Past 100 Years: A Brief Review.- Ultrasound.- Fluoroscopic Techniques for the Interrogation of IBD Patients.- CT Enterography in Crohn's Disease.- Magnetic Resonance Enterography (MRE).- Role of Endoscopy in Diagnosis of Crohn's Disease and Chronic Ulcerative Colitis.- Capsule Endoscopy in the Evaluation of Inflammatory Bowel Disease.- Balloon-assisted Enteroscopy: Techniques, Diagnostic and Therapeutic Yield and Application in Small Bowel Crohn's Disease.- Spiral Enteroscopy: Technique, Diagnostic and Therapeutic Yield and Application in Small Bowel Crohn's Disease.- Diseases That Can Mimic IBD.- Histopathologic Diagnosis of Inflammatory Bowel Disease.- Role of Mucosal Healing.- Role of Endoscopy to Define Postoperative Recurrence in IBD.- The Use of Endoscopy to Follow the Clinical Course of Crohn's Disease.- Endoscopy in Crohn's Disease of the Pouch.- Endoscopic Surveillance for Neoplasia in IBD: Random Biopsy.- The Near Future of Endoscopic Screening in IBD.- Surveillance for Neoplasia in the Patient with an Ileal Pouch.- Pathology DALM.- Endoscopic Approach to Resection of Polypoid and Non-Polypoid Dysplasia in IBD.- Endoscopic Treatment of Complications of Inflammatory Bowel Diseases.- Diagnosis and Treatment: ERCP in PSC.- Future of Endoscopy and IBD.

Fields of interest
Gastroenterology; Colorectal Surgery; Diagnostic Radiology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XII, 708 p. 144 illus., 89 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11076-9

H. Leigh, University of California, San Francisco, Fresno Community Regional Medical Center, Fresno, CA, USA; **J. Streltzer,** University of Hawaii at Manoa Department of Psychiatry, Honolulu, HI, USA (Eds)

Handbook of Consultation-Liaison Psychiatry

Contents
Part I. General Principles and Approaches: Nature, Evolution, and Practice of Consultation-Liaison Psychiatry.- 1.Consultation-Liaison Psychiatry and Psychosomatic Medicine.- 2.The Functions of CL Psychiatry.- 3.The Why and How of Psychiatric Consultation.- 4.Common Reasons for Consultation and their Management.- 5.Psychiatric Consultation in the Emergency Setting.- 6.Interviewing in Consultation-Liaison Psychiatry.- 7.Basic Foundations of Diagnosis, Psychiatric Diagnosis, and Final Common Pathway Syndromes.- 8.Psychopharmacology in Consultation-liaison Psychiatry.- 9.Integrative Care Model of Psychiatry in the Primary Care Setting.- 10.Systems and Ethical Issues in CL Psychiatry: Hospital as a Social System, Sick Role & Doctor Role, Ethical & Legal Issues.- 11.Cultural Aspects of Consultation-Liaison Psychiatry.- Part II. Syndromes, Disorders, and Treatment in Consultation-Liaison Psychiatry.- 12.Delirium, Alcohol Intoxication and Withdrawal Syndromes.- 13.Neurocognitive Disorders (Dementias).- 14.Anxiety and Anxiety Disorders.- 15.Mood Syndromes : Bipolar and Related Disorders and Depressive Disorders.- 16.Trauma and Stressor-Related Disorders I: Acute Stress Disorder, Posttraumatic Stress Disorder.- 17.Trauma and Stressor-Related Disorders 2: Adjustment Disorders.- 18. Dissociative Disorder.- 19.Psychosis.- 20. Substance Use Problems.- 21.Somatic Symptom and Related Disorders (Psychological Factors Affecting Medical Condition, Conversion, Factitious Disorder).- 22.Chronic Pain. [...]

Fields of interest
Psychiatry; Neuropsychology; Health Psychology

Target groups
Professional/practitioner

Product category
Handbook

Due November 2014

2nd ed. 2015. XX, 1220 p. 15 illus., 8 illus. in color. Hardcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-3-319-11004-2

W. E. Longo, V. Reddy, Yale School of Medicine, New Haven, CT, USA; **R. A. Audisio,** University of Liverpool St Helens Teaching Hospital, St Helens, UK (Eds)

Modern Management of Cancer of the Rectum

Modern Management of Cancer of the Rectum is intended to provide a comprehensive overview of all aspects of rectal neoplasms. It addresses epidemiology, biology, screening and chemoprevention, the role of imaging in diagnosis, staging and prognosis, radiation therapy, medical and surgical treatment, as well as new modalities of therapy, including laparoscopy, and transanal endoscopic surgery. A greater understanding of prognostic factors, patterns of spread and natural history has occurred during the past decade; together with new diagnostic modalities this has led to significant changes in the management of patients with rectal cancer. This book will be invaluable for all those who treat rectal cancer.

Features
► Comprehensive update of all aspects of rectal cancer ► Updated content covers the recent advances in the understanding of aetiology (prognostic factors, pattern of spread, natural history) ► Covers screening, diagnosis, genetics and treatment options for rectal cancer

Fields of interest
Colorectal Surgery; Proctology; Surgical Oncology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2nd ed. 2015. XV, 480 p. 120 illus., 108 illus. in color. Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-1-4471-6608-5

J. S. Lucena, Institute of Legal Medicine, University of Cadiz, Seville, Spain; **P. García-Pavía,** Hospital Universitario Puerta de Hierro Majadahonda, Madrid, Spain; **M. P. Suarez-Mier,** National Institute Toxicology and Forensic Sciences, Madrid, Spain; **L. A. Alonso-Pulpon,** Hospital Universitario Puerta de Hierro Majadahonda, Madrid, Spain (Eds)

Clinico-Pathological Atlas of Cardiovascular Diseases

The objective of this Atlas is to contribute to the knowledge of morphological findings of the main cardiovascular diseases among the various specialists who deal with people affected of heart diseases: cardiologists and cardiovascular surgeons, clinical and forensic pathologists, coroners, sports medicine doctors.

Features
► Contains 635 high definition colour figures presenting morphological findings (macro and microscopical) of the main cardiovascular diseases ► Cardiovascular diseases are presented from both, clinical and pathological perspectives, resulting from close collaboration between forensic pathologists and cardiologists ► Presented as a practical case-based approach to every disease

Contents
Methodology of cardiovascular autopsy.- Pulmonary Artery Pathology.- Pathology of Aorta.- Pathology of the pericardium.- Coronary atherosclerotic disease.- Non-atherosclerotic coronary disease.- Valve Pathology.- Cardiomyopathies.- Cardiac system pathology.- Cardiovascular pathology secondary to consumption of ethanol, drugs of abuse and medicaments.- Cardiac tumors.

Fields of interest
Cardiology; Pathology; Anatomy

Target groups
Professional/practitioner

Product category
Atlas

Due November 2014

Original Spanish edition published by Esmon Publicidad, S.A, Barcelona, 2013

2015. XII, 355 p. 354 illus., 353 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11145-2

C. Magi-Galluzzi, C. G. Przybycin, The Cleveland Clinic, Cleveland, OH, USA (Eds)

Genitourinary Pathology

Practical Advances

Contents
Anatomy of the Prostate Revisited: Implications for Prostate Biopsy and Zonal Origins of Prostate Cancer.- Contemporary Gleason Grading System.- Contemporary Prostate Cancer Staging.- Prostate Cancer Reporting on Biopsy and Radical Prostatectomy Specimens.- Unusual Epithelial and Non-Epithelial Neoplasms of the Prostate.- Management Implications Associated with Unusal Morphologic Entities of the Prostate.- Nomograms for Prostate Cancer Decision-Making.- Genetic Determinants of Familial and Hereditary Prostate Cancer.- New Molecular Markers of Diagnosis and Prognosis in Prostate Cancer.- Interoperative Consulations for Prostate Tumors: Challenges and Implications for Treatment.- Genomicws and Epigenomics of Prostate Cancer.- Anatomy of the Urinary Bladder Revisited: Implications for Diagnosis and Staging of Bladder Cancer.- Classification and Histologic Grading of Urothelial Neoplasms by the WHO 2004 (ISUP 1998) Criteria.- Reporting of Bladder Cancer in TURBT and Cystectomy Specimens.- Urothelial Carcinoma Variants: Morphology and Association with Outcomes.- Independent Predictos of Clinical Outcomes and Prediction Models on Bladder and Upper Urinary Tract Cancer.- Familial Urothelial Carcinomas.- New Molecular Markers with Diagnostic and Prognostic Values in Bladder Cancer.- Intraoperative Consultation for Bladder Tumors: Challenges and Implications for Treatment.- Genetic and Epigenetic Alterations in Urothelial Carcinoma.- Urine Cytology.- Anatomy of the Kidney Revisited: Implications for Diagnosis and Staging of Renal Cell Carcinoma. [...]

Fields of interest
Pathology; Urology/Andrology; Laboratory Medicine

Target groups
Professional/practitioner

Product category
Contributed volume

Due March 2015

2015. 703 p. 308 illus., 293 illus. in color. Hardcover
► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 196,50**
► **approx. € 149,99 | £133.00**
ISBN 978-1-4939-2043-3

P. E. Marik, Eastern Virginia Medical School, Norfolk, VA, USA

Evidence-Based Critical Care

Contents

Part I. GENERAL ICU TOPICS.- 1. Evidence Based Critical Care.- 2. "Less Is More": New Paradigm in Critical Care.- 3. "Classic" Papers.- 4. Critical Care Medicine 101.- 5. House Officers Guidelines 1 –Housekeeping.- 6. House Officers Guidelines 2 - Procedures.- 7. Admission-Discharge Criteria.- 8. Chronic Critical Illness and the Long Term Sequela of Critical Care.- 9. Fluid Responsiveness and Fluid Resuscitation.- 10. Assessment of Cardiac Function and Cardiac Output.- 11. Peri-Operative Fluid Optimization.- 12. Sepsis.- 13. The Stress Response, Stress Hyperglycemia and Stress Hyperlactemia.- 14. Understanding the Vital Signs: BP, HR, RR, TEMP, SaO2 … and SV.- 15. Management of Pain, Agitation and Delirium.- 16. Hospital Acquired Infections and Their Prevention.- Part II. PULMONARY.- 17. The Bacterial Pneumonia's: A New Treatment paradigm.- 18. Fever.- 19. Mechanical Ventilation 101.- 20. Non Invasive Ventilation.- 21. Liberation (Weaning from Mechanical Ventilation).- 22. Arterial Blood Gas Analysis.- 23. ARDS.- 24. COPD Exacerbation.- 25. Acute Severe Asthma.- 26. Pleural Effusions and Atelectasis.- 27. Venous Thromboembolic Disease: DVT & PE.- Part III. CARDIAC.- 28. Hypertensive Crises.- 29. Acute Decompensated Cardiac Failure.- 30. Acute Coronary Syndromes.- 31. Arrhythmias.- Part IV. GASTROINTESTINAL.- 32. Nutrition in the ICU – It's Whey Cool.- 33. Stress Ulcer Prophylaxis.- 34. Acute & Chronic Liver Disease.- 35. GI Bleeding.- 36. Pancreatitis.- 37. Diarrhea & Constipation.- Part V. MISCELLANEOUS.- 38. Transfusion of Blood and Blood Products.- 39. Adrenal Insufficiency. [...]

Fields of interest

Intensive / Critical Care Medicine; Anesthesiology; Emergency Medicine

Target groups

Professional/practitioner

Product category

Handbook

Due November 2014

3rd ed. 2015. XII, 768 p. 67 illus., 34 illus. in color. Softcover

► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**

► **€ 119,99 | £108.00**

ISBN 978-3-319-11019-6

P. L. Meroni, Gaetano Pini Institute, Milan, Italy (Ed)

Antiphospholipid Antibody Syndrome

From Bench to Bedside

This book, part of the series Rare Diseases of the Immune System, offers comprehensive, up-to-date coverage of the pathophysiology and management of the antiphospholipid syndrome (APS). Immunologic and genetic aspects are discussed and the pathogenic mechanisms responsible for such phenomena as APS-mediated thrombosis and pregnancy loss/complications are explained.

Features

► Provides up-to-date knowledge on the pathogenesis and management of the syndrome ► Presents and discusses innovative treatments in addition to standard treatment options ► Describes the involvement of other organs or organ systems

Contents

Foreword.- Preface.- 1 APS: Introductory notes.- 2 Immunology and Genetics of APS.- 3 The paradox of the lupus anticoagulant.- 4 The pathogenic mechanism(s) for APS-mediated thrombosis.- 5 The pathogenic mechanism(s) for APS-mediated pregnancy loss.- 6 Classification criteria.- 7 Non-classification criteria.- 8 Obstetric APS.- 9 APS and the nervous system.- 10 APS and renal involvement.- 11 Non-thrombotic hematologic manifestations in APS.- 12 Heart and APS.- 13 Skin and APS.- 14 Additional organs involved in APS (eye, ENT, GI, endocrine).- 15 Treatment of thrombosis.- 16 Treatment of pregnancy complications.- 17 Asymptomatic carries of APS.- 18 New treatments.- 19 Secondary APS.- 20 Catastrophic APS.

Fields of interest

Hematology; Rheumatology; Gynecology

Target groups

Professional/practitioner

Product category

Monograph

Due November 2014

2015. XIV, 300 p. 19 illus., 15 illus. in color. (Rare Diseases of the Immune System) Hardcover

► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**

► **€ 139,99 | £126.00**

ISBN 978-3-319-11043-1

G. Michelson, University Erlangen-Nürnberg, Erlangen, Germany (Ed)

Teleophthalmology in Preventive Medicine

This book provides an up-to-date overview of the clinical applications, methods, and technologies of teleophthalmology within the field of preventive medicine. The ability of novel methods to detect the initial signs of neurodegenerative diseases on the basis of alterations in the retina is reviewed, and detailed attention is paid to the role of teleophthalmology in screening for vision-threatening diseases such as diabetic retinopathy, glaucoma, and age-related macular degeneration. A major part of the book is devoted to novel imaging methods and the latest information technologies, including advanced mobile communication and Web 2.0 applications in teleophthalmology. In addition, the initial projects of an interdisciplinary cooperation in preventive medicine are described. All of the authors are experienced in the scientific and practical aspects of teleophthalmology, including e-learning, and have produced a book that will meet the needs of all medical care providers interested in using teleophthalmology.

Features

► Describes the medical applications, methods, and technologies of teleophthalmology in the field of preventive medicine ► Covers novel imaging methods and the latest information technologies ► Describes the first projects of an interdisciplinary cooperation in preventive medicine

Contents

Applications of Teleophthalmology: Systemic Diseases (Applications).- Ocular Diseases. Methods used in Teleophthalmology: Novel Imaging Devices.- Information Technologies.

Fields of interest

Ophthalmology; General Practice / Family Medicine; Health Informatics

Target groups

Professional/practitioner

Product category

Contributed volume

Due November 2014

2015. X, 120 p. 57 illus., 50 illus. in color. Hardcover

► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 133,50**

► **approx. € 99,95 | £90.00**

ISBN 978-3-662-44974-5

M. Monga, The Cleveland Clinic, Cleveland, OH, USA; **K. L. Penniston,** University of Wisconsin School of Medicine and Public Health, Madison, WI, USA; **D. S. Goldfarb,** NYU Langone Medical Center, New York, NY, USA (Eds)

Pocket Guide to Kidney Stone Prevention

Dietary and Medical Therapy

This book provides a concise, patient-directed approach to stone prevention. It defines who to evaluate and when to treat, and provides empiric guidelines for all stone formers. Specific treatment guidelines are also included, based on the kidney stone composition and the underlying metabolic abnormalities demonstrated by 24-hour urine stone risk profile.

Features
► All chapters are written by experts in their fields ► Provides a concise, patient-directed approach ► Provides a valuable resource for a broad base of clinicians in primary and specialty care

Contents
What is the risk of stone recurrence?.- General Nutrition Guidelines For All Stone Formers.- 24-hour Urine and Serum Tests: When and What?.- Nutrition Management of Hypercalciuria.- Hypercalciuria.- Nutrition Management of Hypocitraturia.- Medications.- Nutritional Management of Hyperoxaluria.- Nutrition Management of Uric Acid Stones.- Uric Acid Stones.- Cystinuria.- Struvite Stones, Diet, and Medications.- Laboratory Follow-Up of the Recurrent Stone Former.- Imaging (Cost, Radiation).- What to do about Asymptomatic Calculi?.- Acute Renal Colic and Medical Expulsive Therapy.- Stratifying Surgical Therapy.

Fields of interest
Nephrology; Urology/Andrology; Primary Care Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. IV, 140 p. 6 illus., 2 illus. in color. Softcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11097-4

B. Mukerjee, Sankara Nethralaya, Chennai, India; **H. Yuen,** Hong Kong Eye Hospital, Hong Kong, Hong Kong SAR (Eds)

Orbital, Lacrimal and Eyelid Emergencies

It can be argued that the orbit can no more be called 'Pandora's Box' because of the unpredictable nature of its contents. This perception has changed over the years due to the advent of improved diagnostic, in particular, imaging techniques. However, since medical residency provides very little exposure to orbital and adnexal disorders, most clinicians are inexperienced about how to deal with them. Facing an emergency situation where improper management can rapidly worsen the condition leading to blindness or even death of the patient is every ophthalmologist's nightmare. The emergent nature of these conditions do not provide for a leeway to refer these patients to an orbit & oculoplasty specialist, who are few and far between. By the time the patient reaches his destination, his vision maybe irrevocably lost. The legal implications of such mismanagement may be significant.

Features
► A practical guide to managing eye emergencies in clinical practice ► Covers all vision and sometimes life-threatening orbital and oculoplastic emergencies ► Written by leading experts in oculoplastic surgery

Contents
Section I Trauma .-Immediate management of periocular trauma.-Eyelid and Lacrimal trauma.-Orbital traumaSection II Non-traumatic emergent adnexal diseases.-Inflammatory adnexal disease.-Acute periocular vascular disease.-Emergent periocular malignancies

Fields of interest
Ophthalmology; Intensive / Critical Care Medicine; Emergency Medicine

Target groups
Professional/practitioner

Product category
Professional book

Due May 2015

2015. Approx. 250 p. 120 illus., 100 illus. in color. Hardcover
► **approx. *€ (D) 127,33 | € (A) 130,90 | sFr 158,50**
► **approx. € 119,00 | £107.50**
ISBN 978-81-322-1806-7

L. A. Newman, J. M. Bensenhaver, University of Michigan Health System, Ann Arbor, MI, USA (Eds)

Ductal Carcinoma In Situ and Microinvasive/Borderline Breast Cancer

Features
► Provides challenging and clinically-relevant scenarios ► Written by experts in this field ► Provides innovative prospects for tailoring the individual patient's treatment

Contents
Epidemiology of Ductal Carcinoma In Situ.- Role of Screening Mammography in Early Detection/Outcome from Breast Cancer.- Imaging DCIS: Digital/Film Screening Mammography, Tomosynthesis, MRI, Ultrasonography.- Pathology of Ductal Carcinoma In Situ: Features and Diagnostic Challenges.- Molecular Markers in DCIS.- History of Ductal Carcinoma In Situ Management Based Upon Data from Prospective, Randomized Clinical Trials.- Extent and Role of Margin Control for DCIS Managed by Breast-Conserving Surgery.- Ductal Carcinoma In Situ Treated With Breast Conserving Surgery Alone.- DCIS Managed with BCS: Whole-Breast XRT vs. Partial Breast XRT.- Anti-HER2/neu Therapy in DCIS.- Role of Genetic Profiling and Recurrence Scores in Treatment Planning for DCIS.- DCIS and Sentinel Lymph Node Biopsy.- Role of Postmastectomy Radiation for DCIS.- Monitoring and Surveillance Following DCIS Treatment.- DCIS and Hereditary Susceptibility for Breast Cancer.- Introduction, Evolution and Application of the Van Nuys Prognostic Index in DCIS.- Disparities in DCIS Detection and Outcomes Related to Race/Ethnicity.

Fields of interest
Surgery; Surgical Oncology; Gynecology

Target groups
Upper undergraduate

Product category
Contributed volume

Due November 2014

2015. I, 444 p. 35 illus., 32 illus. in color. Hardcover
► ***€ (D) 128,39 | € (A) 131,99 | sFr 160,00**
► **€ 119,99 | £108.00**
ISBN 978-1-4939-2034-1

K. Otsuka, Tokyo Women's Medical University Medical Center East, Arakawa-ku, Japan; **G. Cornelissen, F. Halberg,** University of Minnesota Halberg Chronobiology Center, Minneapolis, MN, USA

Chronomics and Ambulatory Blood Pressure Monitoring

This fascinating volume attempts to apply the concept of chronomics to the medical treatment of hypertension. It starts with the recent updates on chronomics, the analytic techniques and their application to community-based assessments. The authors advocate the use of 7-day/24-h records of blood pressure, which is effective to find masked hypertension, masked morning surge, and other rhythm abnormalities. Most organisms, from cyanobacteria to mammals, are known to use the circadian mechanism. However, our body systems also demonstrate circaseptan (roughly weekly),circannual (roughly yearly)and even longer rhythms.

Features
► Applies the idea and analysis technique of chronomics to the medical treatment of hypertension ► Includes a wealth of data and graphs collected from field studies ► Will benefit clinicians who want to increase the efficiency of blood pressure analysis and medical treatment, as well as research scientists who are interested in chronomics

Contents
History (Halberg, Otsuka) - Chronobiology (Halberg, Otsuka) - Chronomics (Otsuka, Cornelissen, Halberg) - Introduction to Chronobioengineering (Cornelissen, Otsuka) - Chronoecology (Otsuka, Cornelissen, Halberg) - Chronoastrobiology (Cornelissen, Otsuka, Halberg)

Fields of interest
Cardiology; Human Physiology; Medicine/Public Health, general

Target groups
Professional/practitioner

Product category
Monograph

Due May 2015

2015. Approx. 500 p. 700 illus., 100 illus. in color. Hardcover
► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **approx. € 149,99 | £135.00**
ISBN 978-4-431-54630-6

M. M. Özek, Acıbadem University, Istanbul, Turkey; **G. Cinalli,** Santobono Children's Hospital, Naples, Italy; **W. Maixner,** Royal Childrens Hospital, Melbourne, VIC, Australia; **C. Sainte-Rose,** Hopital Necker-Enfants Malades, Paris, France (Eds)

Posterior Fossa Tumors in Children

Contents
Preface.- I General Principles of Treatment in Pediatric Posterior Fossa Tumors.- 1 History of Posterior fossa tumor surgery.- 2 Development of posterior fossa structures.- 3 Microsurgical anatomy of posterior fossa.- 4 Anatomical connections of cerebellum.- 5 Clinical presentation and neurological evaluation: neurophthalmology.- 6 Molecular biology.- 7 Radiation oncology.- II Surgical Approaches to Pediatric Posterior Fossa Tumors.- 8 Median suboccipital approach.- 9 Paramedian approach.- 10 Skull base approaches in children.- 11 Anterior skull base approaches to posteror fossa.- 12 Treatment of hydrocephalus in PFT.- 13 Intraoperative mapping and monitorisation of PFT.- III Pathologies in Pediatric Posterior Fossa Tumors.- i. Medulloblastoma.- 14. Genetics of PFT.- 15 Radiology in Medulloblastoma.- 16 Surgery in Pediatric Medulloblastoma.- 17 Pathology in Medulloblastoma.- 18 Oncology in Medulloblastoma.- 19 Radiation in Medulloblastoma.- ii. Ependimoma.- 20 Genetics of Ependimoma.- 21 Radiology of Ependimoma.- 22 Surgery of Ependimoma – 23 Pathology of Ependimoma.- 24 Oncology of Ependimoma.- iii. Cerabellar astrocytoma.- 25 Genetics of Cerabellar astrocytoma.- 26 Radiology of Cerabellar astrocytoma.- 27 Surgery of Cerabellar astrocytoma.- 28 Pathology Cerabellar astrocytoma 29 Oncology of Cerabellar astrocytoma.- 30 Radiation in Cerabellar astrocytoma.- iv. Brain stem tumors.- 31 Radiology in Brain stem tumors.- 32 Surgery of mesenchephalon.- 33 Surgery of pontine tumors. [...]

Fields of interest
Neurosurgery; Pediatrics; Neuroradiology

Target groups
Professional/practitioner

Product category
Reference work

Due November 2014

2015. XII, 940 p. 389 illus., 232 illus. in color. Hardcover
► ***€ (D) 277,13 | € (A) 284,90 | sFr 345,00**
► **€ 259,00 | £233.50**
ISBN 978-3-319-11273-2

R. G. Panizzon, University Hospital CHUV, Lausanne, Switzerland; **M. H. Seegenschmiedt,** Strahlenzentrum Hamburg, Hamburg, Germany (Eds)

Radiation Treatment and Radiation Reactions in Dermatology

Features
► Explains the use of radiation treatment in the full range of skin cancers and precancerous lesions ► Covers physical and radiobiological principles, dose definitions, radiation reactions, and risk assessments ► Revised and updated edition that includes new chapters and numerous additional figures

Contents
History of Dermatologic.- Radiotherapy.- Radiobiology of the Skin.- Radiation Equipment.- Radiation Treatment of Benign Dermatoses.- Grenz Ray Treatment.- Soft-X-Ray Treatment.- Tumor Staging in Dermatology.- Treatment of Precancerous Lesions.- Radiation Treatment of Skin Carcinomas.- Electron Therapy of Skin Carcinomas.- Radiotherapy of Kaposi's Sarcoma.- Radiotherapy of Lymphomas .- Indian Experience.- Radiotherapy of Merkel Cell Carcinoma.- Radiotherapy of Melanoma.- Side Effects of Radiation Treatment.- Radiation Accidents.- Index. Index: The manuscript includes terms for the index. SPI should create an index and send proofs to the editors for approval.

Fields of interest
Dermatology; Radiotherapy; Oncology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2nd ed. 2015. XX, 214 p. 93 illus., 74 illus. in color. Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 143,50**
► **approx. € 99,95 | £90.00**
ISBN 978-3-662-44825-0

J. Papadopoulos, New York University Langone Medical Center, New York, NY, USA

Pocket Guide to Critical Care Pharmacotherapy

This is a no-nonsense guide to drug treatment in the intensive care unit. It covers the most commonly encountered conditions and is organized by system. Management of each condition is tersely outlined step-by-step in table format. The book also includes non-drug information that is essential to making informed, evidence-based pharmacotherapy decisions, such as risk scores, scales, and assessment tools. The Second Edition has been revised to reflect the latest critical care practice guidelines and up-to-date drug and non-drug information.

Features
► Up-to-date portable drug guide for the ICU ► Reflects latest critical care practice guidelines ► Most commonly encountered conditions, organized by system ► Concise, step-by-step presentations ► Important non-drug information included (e.g., risk scores, scales, and more) ► Selected recent references and Web resources

Contents
1. Advance Cardiac Life Support.- 2. Cardiovascular.- 3. Cerebrovascular.- 4. Critical Care.- 5. Dermatology.- 6. Endocrinology.- 7. Gastrointestinal.- 8. Hematology.- 9. Infectious Diseases.- 10. Neurology.- 11. Nutrition.- 12. Psychiatric Disorders.- 13. Pulmonary.- 14. Renal.

Fields of interest
Intensive / Critical Care Medicine; Anesthesiology; Pharmacy

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2nd ed. 2015. X, 186 p. Softcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-1-4939-1852-2

S. Patole, KEM Hospital for Women, Perth, WA, Australia (Ed)

Management and Leadership – A Guide for Clinical Professionals

This book will provide anyone with an interest in the clinic with a basic guide on those things that are not taught during medical school or any other pre-clinical trainings. The line-up of authors was carefully assembled to include experts in all respective fields to give this volume the authority it requires to be a relevant text for many.

Features
► A basic guide for all hospital staff that wish to deliver high quality health care services ► The contributors are authorities in their respective fields ► A valuable guideline for handling ethically complex cases

Contents
Succeeding in your consultant interview.- Clinical leadership and engagement: No longer an optional extra.- The art of negotiation, handling difficult behaviour, and facing the media.- Handling complaints, meetings, and presentations.- Performance appraisal and assessment.- Quality improvement.- Risk management.- Root cause analysis.- Occupational health and safety.- Coping with stress.- The nature of conflict in health-care.- Evidence based management.- Clinical handovers.- The educational role of senior hospital staff.- Mentoring.- Expert or impostor- understanding the role of the expert witness.- How to dress at work.- Managing ethically complex issues in critically ill patients - a neonatal perspective.- Communicating bad news in the health care organization.- Managing grief and its consequences at the workplace.

Fields of interest
Medicine/Public Health, general; Popular Science in Medicine and Health; Health Economics

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XX, 330 p. 30 illus. in color. Softcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £22.99**
ISBN 978-3-319-11525-2

M. J. Perry, University Hospital North Staffordshire, Trent, UK; **S. Holmes,** The Royal London Hospital, London, UK (Eds)

Atlas of Operative Maxillofacial Trauma Surgery

Post-Traumatic Deformity

This book will provide a fully comprehensive and highly illustrated (using mostly operative colour photographs) "how to" technical reference manual, demonstrating surgical procedures in a step by step manner. The aim is to enable the reader to understand how and why any particular procedure is undertaken.

Features
► All surgical procedures (in trauma) will be included which will be very useful for all trainees and surgeons ► Each injury pattern encountered in maxillofacial practice will be broken down into its component procedure, from very minor to major procedures ► The text is limited mainly to a relatively brief introductory section (outlining relative anatomy, indications and contraindications, advantages and disadvantages, complications) and legends for each picture, describing what is being done

Field of interest
Medicine/Public Health, general

Target groups
Professional/practitioner

Product category
Atlas

Due January 2015

2015. Approx. 500 p. 330 illus., 300 illus. in color. Hardcover
► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **approx. € 149,99 | £135.00**
ISBN 978-1-4471-5615-4

R. Rajendram, Barnet and Chase Farm Hospitals, London, UK; **V. R. Preedy,** Kings College London, London, UK; **V. B. Patel,** University of Westminster, London, UK (Eds)

Glutamine in Clinical Nutrition

Contents
Part I. Basic Processes at the Cellular Level and in Animal Models.- 1. Glutamine structure and function: a starter pack.- 2. Amino acid transporters and glutamine.- 3. Role of glutamine transaminases in nitrogen, sulfur, selenium and 1-carbon metabolism.- 4. Glutamine uptake and immunomodulation: an overview - Kenneth Frauwirth.- 5. The role of glutamine and glutamic acid in the pituitary gland involvement in thyroid-stimulating hormone release.- 6. Glucose-independent glutamine-driven TCA cycle in cancer cells.- 7. The role of glutamine synthetase in the glutamine independence in mammary tissue.- 8. Glutamine addiction of cancer cells.- 9. L-[5-11C]-glutamine and metabolic imaging in cancer cells.- 10. Endotoxemia and glutamine.- Part II. Glutamine Use in Critically Ill Patients and Their Diagnosis.- 11. Plasma glutamine and its levels in metabolic stress.- 12. Glutamine supplementation in major surgery and intensive care.- 13. Enteral nutrition supplemented with L-glutamine in patients with sepsis.- 14. Glutamine supplementation in multiple trauma patients.- 15. Glutamine dipeptide and insulin sensitivity in critically ill patients.- 16. Potential for glutamine supplementation in critically ill children.- 17. Glutamine and ammonia in hepatic encephalopathy.- 18. The oral glutamine challenge in liver cirrhosis.- Part III. Glutamine in Normal Metabolism and under Surgical Stress.- 19. Insulin secretion and the glutamine-glutamate-alpha-ketoglutarate axis. [...]

Fields of interest
Clinical Nutrition; Nutrition; Food Science

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XXII, 894 p. 182 illus., 67 illus. in color. (Nutrition and Health) Hardcover
► ***€ (D) 203,29 | € (A) 208,99 | sFr 253,00**
► **€ 189,99 | £171.00**
ISBN 978-1-4939-1931-4

C. Ratto, A. Parrello, L. Donisi, F. Litta, Catholic University, Roma, Italy (Eds)

Colon, Rectum and Anus: Anatomic, Physiologic and Diagnostic Bases for Disease Management

Contents
Introduction.- Coloproctology: From its Origins to the Super-Specialization.- To be a Coloproctologist Today.- A Surgeon for the Pelvic Floor: Dream or Reality?.- Anatomy.- Surgical Anatomy of the Colon, Rectum and Anus.- Topographic Anatomy of the Colon and Rectum: Tips and Tricks in Laparoscopic and Robotic Surgery.- Topographic Anatomy in Proctologic Surgery.- Physiology.- Physiology of the Colon.- Physiology of the Rectum and Anus.- Factors Affecting the Intestinal Physiology.[...]

Fields of interest
Colorectal Surgery; Proctology; General Surgery

Target groups
Research

Product category
Handbook

SPRINGER REFERENCE

Due March 2015

Print

2015. 500 p. 180 illus. in color. (Coloproctology, Volume 1)
► ***€ (D) 346,68 | € (A) 356,40 | sFr 431,50**
► **€ 324,00 | £292.00**
ISBN 978-3-319-09806-7

eReference

2015. eReference. (Coloproctology, Volume 1)
►***€ (D) 385,56 | € (A) 388,80 | sFr 453,50**
► **€ 324,00 | £292.00**
ISBN 978-3-319-09807-4

Print + eReference

2015. 500 p. 180 illus. in color. Print + eReference. (Coloproctology, Volume 1)
► ***€ (D) 438,70 | € (A) 451,00 | sFr 546,00**
► **€ 410,00 | £369.00**
ISBN 978-3-319-09808-1

N. Rezaei, Tehran University of Medical Sciences Research Center for Immunodeficiencies, Tehran, Iran (Ed)

Cancer Immunology

Bench to Bedside Immunotherapy of Cancers

Contents
Frontiers in Cancer Immunotherapy.- Novel Strategy of Cancer Immunotherapy: Spiraling Up.- Novel Prognostic Biomarkers for Personalized Cancer Treatments.- Tumor Antigen and Epitope Identification for Pre-Clinical and Clinical Evaluation.- Strategies to Target Tumor Immunesuppression.- Immune Modulation of Drugs in Prevention and Treatment of Cancers.- Overcoming Immune Tolerance With Immune Checkpoint Blockade.- Gene therapy and Virus-Based Cancer Vaccines.- Cancer Stem Cells: Biology and Potential therapeutic Applications.- Hematopoietic Stem Cell Transplantation and Lymphodepletion in Treatment of Cancers.- Combination of Chemotherapy and Cytokine Therapy in Treatment of Cancers.- T Cell Immunotherapy: From Synthetic Biology to Clinical Practice.- Role of Gamma-Delta T Lymphocytes in Cancer Immunosurveillance and Immunotherapy.- Adoptive T Cell therapy: Optimizing Chemokine Receptor-Mediated Homing of T Cells in Cancer Immunotherapy.- Cellular therapy of Cancer With B Effector Cells.- Monoclonal Antibodies for Treatment of Cancers.- Pattern Recognition Receptors in Cancers and Immunotherapy by Triggering or Targeting of Toll Like Receptors Pathway.- Recent Advances in the Use of NK Cells Against Cancer.- Dendritic Cell Vaccines for Cancer Therapy: Fundamentals and Clinical Trials.- Tumor Associated Macrophages and iNOS in Cancer Immunotherapy.- Photodynamic therapy and Anti-Tumor Immune Response.- Polarization of Tumor Milieu: Therapeutic Implications.- Immunotherapies Targeting 5T4 Oncofoetal Glycoprotein. [...]

Fields of interest
Internal Medicine; Immunology; Oncology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. Approx. 340 p. 41 illus., 32 illus. in color. Hardcover
► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **approx. € 149,99 | £135.00**
ISBN 978-3-662-44945-5

E. Rifkin, Rifkin and Associates, Baltimore, MD, USA; **A. Lazris,** Ellicott City, MD, USA

Interpreting Health Benefits and Risks

A Practical Guide to Facilitate Doctor-Patient Communication

Features
► Provides physicians with an innovative tool designed to facilitate doctor/patient communication: the Risk Characterization Theater ► Includes tables and charts designed to compare absolute risks from day-to-day activities (e.g., driving, SCUBA diving) to absolute risks and benefits from medical intervention ► Adds an important and unique dimension to existing efforts to increase meaningful patient-centered care

Contents
Part I: Setting the Stage.- Shared Decision Making (SDM).- Decision Aids.- Towards a Universal Decision Aid.- Involving the Patient in Decision Making.- BRCTs.- Part II: Case Studies – Health Benefits and Risks.- Breast Cancer Screening: Mammograms.- Colon Cancer Screening with Colonoscopy.- Prostate Cancer Screening.- Screening for Lung Cancer with Spiral CT.- Health Effects of Smoking.- Exercise Stress Tests.- The Use of Warfarin in Atrial Fibrillation.- Aspirin for Prevention of Heart Disease and Stroke.- Screening for Carotid Stenoses in Asymptomatic Patients.- Cholesterol Screening.- Statins, Cholesterol and Coronary Heart Disease.- Annual Exam.- Screening for and Treating Dementia.- Osteoporosis: Bone Density Testing and Drug Treatment.- Osteoporosis: Calcium and Vitamin D.- Estrogen Replacement Therapy.- Vitamins and Supplements.- MRI and Back Pain.- Antibiotics in Sinusitis and Bronchitis.- Final Thoughts.

Fields of interest
General Practice / Family Medicine; Primary Care Medicine; Practice Management

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XVI, 434 p. 49 illus. Softcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11543-6

P. M. Rommens, University Medical Center Johannes Gutenberg University, Mainz, Germany; **M. H. Hessmann,** Academic Teaching Hospital Fulda, Fulda, Germany (Eds)

Intramedullary Nailing

A Comprehensive Guide

This book contributes to the enhancement of fundamental and practical knowledge in the treatment of fractures, healing disturbances and bone disorders with intramedullary nailing. It promotes this biological and mechanical outstanding technique for appropriate indications and ameliorate the standard of care for those patients, who can profit from intramedullary nailing.

Features
► Provides practical knowledge in the treatment of fractures, healing disturbances and bone disorders with IM ► Promotes the biological and mechanical outstanding of IM ► Discusses the diverse technical and logistical equipment utilised for this technique

Contents
Part I - General part.- The origins.- Rationale.- Physiologic effects of reaming.- Interlocking.- Preoperative planning.- Reduction techniques.- Soft tissue management and postoperative care.- Complications.- Metal removal.- Part II - Specific part.- Clavicle.- Proximal humerus.- Humerus shaft.- Olecranon – ulna.- Distal radius.- Hand.- Pertrochanteric fractures.- Cement augmentation.- Subtrochanteric fractures.- Femur diaphysis.- Distal femur.- Proximal tibia.- Tibia diaphysis.- Distal tibia.- Children and adolescents.- Nonunion.- Malalignment.- Knee arthrodesis.- Hindfoot arthrodesis.- Limb lengthening – computerized.- Limb lengthening – mechanical.- Pathological fracture.- Antibiotic coated nail.- Congenital bone disorders.

Field of interest
Surgical Orthopedics

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. X, 488 p. 989 illus., 217 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4471-6611-5

F. Rongioletti, University of Genoa, Genova, Italy; **I. Margaritescu,** Bucharest and Medcenter Medical Center, Bucharest, Romania; **B. R. Smoller,** United States and Canadian Academy of Pathology, Augusta, GA, USA

Rare Malignant Skin Tumors

Contents
Adenoid (Acantholytic) Squamous Cell Carcinoma.- Clear cell and signet ring cell squamous carcinoma.- Squamous cell carcinoma with mucinous metaplasia.- Adenosquamous cell carcinoma.- Mucoepidermoid carcinoma.- Carcinosarcoma.- Lymphoepithelioma-like carcinoma.- Fibroepithelioma of Pinkus.- Basal Cell Carcinoma with Matrical Differentiation.- Trichoblastic Carcinoma.- Malignant proliferating trichilemmal tumor.- Trichilemmal carcinoma.- Pilomatrix carcinoma.- Sebaceous gland carcinoma.- Primary cutaneous apocrine adenocarcinoma.- Extramammary Paget's Disease.- Primary Cutaneous Adenoid Cystic Carcinoma.- Malignant mixed tumor of skin.- Hidradenocarcinoma.- Malignant cylindroma.- Malignant Eccrine Spiradenoma.- Microcystic adnexal carcinoma.- Syringoid Eccrine Carcinoma.- Digital papillary adenocarcinoma.- Porocarcinoma.- Signet-ring cell carcinoma of the eyelid/Histiocytoid variant of eccrine sweat gland carcinoma of the eyelid.- Primary mucinous carcinoma of the skin.- Endocrine mucin-producing sweat gland carcinoma.- Low-Grade Fibromyxoid Sarcoma.- Myxofibrosarcoma.- Fibrosarcoma.- Dermatofibrosarcoma protuberans.- Malignant fibrous histiocytoma(pleomorphic undifferentiated sarcoma).- Epithelioid sarcoma.- Composite Hemangioendothelioma.- Epithelioid hemangioendothelioma.- Kaposiform Hemangioendothelioma.- Retiform Hemangioendothelioma.- Pseudomyogenic Hemangioendothelioma.- Spindle cell liposarcoma.- Myxoid liposarcoma.- Cutaneous Leiomyosarcoma. [...]

Fields of interest
Pathology; Oncology; Dermatology

Target groups
Professional/practitioner

Product category
Monograph

Due December 2014

2015. XX, 520 p. 358 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4939-2022-8

A. Russo, University of Palermo, Palermo, Italy; **R. Rosell,** USP Dexeus University Institute, Barcelona, Spain; **C. D. Rolfo,** Clinica Rotger, Palma de Mallorca, Spain (Eds)

Targeted Therapies for Solid Tumors

This volume provides readers a comprehensive and state-of-the-art overview about the range of applications of targeted therapies for solid tumors. The sections of the book have been structured to review the oncogene addicted tumors, the pharmacology and clinical development of new molecularly targeted agents, the use of biomarkers as prognostic, predictive and surrogate endpoints, and the evaluation of tumor response and specific malignancies treated with targeted agents.

Features
► Provides a concise and comprehensive summary ► Published in Essentials in Current Clinical Pathology book series ► Written by a worldwide base of experts

Contents
Introduction.- Oncogene addicted tumors.- Pharmacology and clinical development of new molecularly targeted agents.- Biomolecular characterization of solid malignancies: biomarkers as prognostic, predictive and surrogate endpoints.- Evaluation of response in malignant tumors treated with targeted agents.- Targeted therapies in breast cancer.- Targeted therapies in head and neck cancers.- Targeted therapies in NSCLC.- Targeted therapies in gastric cancer.- Targeted therapies in pancreatic cancer.- Targeted therapies in HCC.- Targeted therapies in CRC.- Targeted therapies in GIST.- Targeted therapies in kidney cancer.- Targeted therapies in melanoma.- Novel Bone-Target Therapy in Osteoncology.

Fields of interest
Pathology; Oncology; Cancer Research

Target groups
Professional/practitioner

Product category
Contributed volume

Due February 2015

2015. 300 p. 130 illus., 10 illus. in color. (Current Clinical Pathology) Hardcover
► **approx. *€ (D) 128,39 | € (A) 131,99 | sFr 157,00**
► **approx. € 119,99 | £106.50**
ISBN 978-1-4939-2046-4

G. L. Schattman, Weill Cornell Medical College, New York, NY, USA; **S. Esteves,** ANDROFERT, Campinas, Brazil; **A. Agarwal,** Cleveland Clinic, Cleveland, OH, USA (Eds)

Unexplained Infertility

Pathophysiology, Evaluation and Treatment

Contents
Part I: Definitions and Epidemiology.- Definitions and Relevance of Unexplained Infertility in Reproductive Medicine.- Definitions and Epidemiology of Unexplained Male Infertility.- Controversies Surrounding the 2010 World Health Organization Cutoff Values for Human Semen Characteristics and Its Impact on Unexplained Infertility.- Definitions and Epidemiology of Unexplained Female Infertility.- Part II: Pathophysiology: Male.- Sperm Biology from Production to Ejaculation.- Idiopathic Infertility: Survival and Function of Sperm in the Female Reproductive Tract.- Potential Male Etiologies of Unexplained Infertility.- Genetic Basis of Unexplained Male Infertility.- Role of the Immune System in Unexplained Male Infertility.- Oxidative Stress in Unexplained Male Infertility.- Role and Significance of Sperm Function in Men with Unexplained Infertility.- Role of Environmental Factors and Gonadotoxin Exposure in Unexplained Male Infertility.- Part III: Pathophysiology: Female.- Potential Female Etiologies of Unexplained Infertility.- Oxidative Stress in Unexplained Female Infertility.- Role of Environmental Factors and Gonadotoxin Exposure in Unexplained Female Infertility.- Cervical Hostility and Vaginal pH in Females with Unexplained Infertility.- Role of Endometrial Receptivity in Unexplained Infertility.- Fallopian Tube Dysfunction in Unexplained Infertility.- Subtle Endometriosis and Unexplained Infertility.- Part IV: Evaluation.- Evaluation of Women with Unexplained Infertility. [...]

Fields of interest
Reproductive Medicine; Gynecology; Urology/ Andrology

Target groups
Professional/practitioner

Product category
Contributed volume

Due January 2015

2015. XXV, 350 p. 69 illus., 51 illus. in color. Hardcover
► **approx. *€ (D) 128,39 | € (A) 131,99 | sFr 157,00**
► **approx. € 119,99 | £106.50**
ISBN 978-1-4939-2139-3

P. K. Sikka, Signature Healthcare Brockton Hospital, Brockton, MA, USA (Ed)

Basic Clinical Anesthesia

Contents
Part I. The Basics.- 1.History of Anesthesia.- 2.Preoperative Evaluation.- 3. Approach to Anesthesia.- 4. Perioperative Airway Management.- 5. Anesthesia Machine.- 6. Patient Monitoring.- 7. Fluid and Electrolyte balance.- 8. Transfusion Medicine.- Part II. Anesthetic Pharmacology.- 9. Mechanisms of Anesthetic Action.- 10. Inhalational Anesthetics.- 11. Intravenous Induction Agents.- 12. Opioids and Benzodiazepines.- 13. Neuromuscular blocking and reversal agents.- 14. Antiemetics.- 15. NSAIDs and Alpha-2 Adrenergic Agonists.- 16. Diuretics.- 17. Cardiovascular pharmacology.- 18. Local Anesthetics.- 19. Allergic reactions.- 20. Drug Interactions.- Part III. Regional Anesthesia.- 21. Spinal and Epidural Anesthesia.- 22. Peripheral nerve blocks.- 23. Ultrasound guided peripheral nerve blocks.- 24. Pain Management.- 25. Orthopedic Anesthesia.- Part IV. Specialty Anesthesia.- 26. Cardiac Anesthesia.- 27. Vascular Anesthesia.- 28. Ophthalmic Surgery.- 29. Neuroanesthesia.- 30. Ambulatory Anesthesia.- 31. Non-Operating Room Anesthesia.- 32. Hepatic and Gastrointestinal diseases.- 33. Renal and Urinary Tract Diseases.- 34. Endocrine diseases.- 35. Neurological and Neuromuscular Diseases.- 36. Ophthalmic Surgery.- 37. Ear, nose and throat surgery.- 38. Obstetric Anesthesia.- 39. Pediatric Anesthesia.- 40. Critical Care.- 41. Postoperative anesthesia care.- Part V. Special Anesthesia Topics.- 42. Obesity.- 43. The Elderly patient.- 44. Pulmonary Aspiration & Postoperative Nausea and Vomiting.- 45. Acid Base balance.- 46. Trauma.- 47. Spine Surgery.- 48. Robotic Surgery.- 49. Patient positioning and Common nerve injuries.- 50. Substance Abuse.- 51. Awareness under anesthesia.- 52. Infectious diseases. [...]

Field of interest
Anesthesiology

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XXXIV, 736 p. 261 illus., 235 illus. in color. Softcover
► ***€ (D) 96,29 | € (A) 98,99 | sFr 120,00**
► **€ 89,99 | £81.00**
ISBN 978-1-4939-1736-5

M. Strupp, Center for Vertigo & Balance Disorders University Hospital Munich, Munich, Germany;
T. Brandt, Center for Vertigo & Balance Disorders University of Munich, Munich, Germany

Ocular Motor Disorders and Vertigo

Diagnosis and Management

The book covers the clinically most relevant central and peripheral ocular motor and vestibular disorders. Clinically-oriented and easy-to-read, it describes how to take the history of a patient suffering from double vision, blurred vision, opscillopsia, vertigo, or dizziness. The procedure for taking the patient history is poorly understood, resulting in late or no diagnosis in many. The book also provides a detailed description of how to examine the central and peripheral ocular motor system and the central and peripheral vestibular system.

Feature
► Step-by-step approach in this book, beginning with the patient history followed by the clinical examination of the ocular motor and vestibular systems, the most important diagnoses, and the treatment options will motivate the reader to a complex topic

Contents
Taking the patient's history in: double vision.- blurred vision.- oscillopsia.- vertigo or dizziness.- Clinical examination of: double vision.- blurred vision.- oscillopsia.- vertigo and dizziness.- The most important: central and peripheral ocular motor disorders.- central and peripheral vestibular disorders.- How to treat a patient: central and peripheral ocular motor disorders.- vertigo and dizziness.

Fields of interest
Neurology; Otorhinolaryngology; General Practice / Family Medicine

Target groups
Professional/practitioner

Product category
Professional book

R. H. Tambouret, D. C. Wilbur, Massachusetts General Hospital, Boston, MA, USA

Glandular Lesions of the Uterine Cervix

Cytopathology with Histologic Correlates

This volume provides a compact, concise and up-to-date resource for pathologists and clinicians who are involved in women's health. The book summarizes the incidence, epidemiology and risk factors for cervical adenocarcinoma, while reviewing the normal histology of the cervix and glandular lesions of the cervix. The cytological appearance of glandular lesions of the cervix and their mimics is amply illustrated and discussed. Management of glandular lesions is also outlined.

Features
► Published in Essentials in Cytopathology book series ► Fits in lab coat pocket ► Majority of illustrations are in full color ► Illustration oriented accompanied by text in outline format

Contents
Introduction to endocervical glandular lesions.- Processing, Reporting and Sensitivity of Cervical Cytology with an Emphasis on Glandular Lesions.- Normal Histology and Cytology of the Endocervix and Endometrium.- Cytology of endocervical glandular neoplasia.- Cytologic mimics of endocervical glandular neoplasia.- Cytology of endometrial cells and lesions.- Cytology of extracervical adenocarcinoma.- Management of glandular lesions identified on cervical cytology and histology with suggestions for continuous quality improvement in the cytology laboratory.

Fields of interest
Surgical Oncology; Gynecology; Laboratory Medicine

Target groups
Professional/practitioner

Product category
Professional book

D. Taylor, Comprehensive Pain Care, PC, Marietta, GA, USA

Managing Patients with Chronic Pain and Addiction

This text will provide readers with a thorough review of the complex condition of chronic pain and addictions. The book was originally commissioned due to the need in the field for more literature on the topic. This concise pocket book will review epidemiology, clinical features, diagnosis, and medical management of both chronic pain and addiction. Busy healthcare professionals will benefit from this text, which will not only cover the foundation of the management of both conditions and together, but discuss up-to-date national and international treatment guidelines, upcoming therapies and REMS.

Features
► A concise book for healthcare professionals to better understand the background and development of chronic pain and addiction ► A comprehensive guide on major diagnosing, staging and treatment guidelines for chronic pain and addictions ► Special chapter on TIRF REMS

Contents
Preface.- Introduction to Chronic Pain.- Introduction to Managing Patients with Addictions and Chronic Pain.- Managing Patients with Chronic Pain and Addiction.- Case Studies.- Conclusion.

Fields of interest
Medicine/Public Health, general; Pharmacy; Rehabilitation Medicine

Target groups
Professional/practitioner

Product category
Handbook

Due January 2015

2015. Approx. 145 p. 80 illus. Softcover
► approx. *€ (D) 42,75 | € (A) 43,95 | sFr 53,50
► approx. € 39,95 | £35.99
ISBN 978-1-84628-547-9

Due November 2014

2015. X, 136 p. 110 illus. in color. (Essentials in Cytopathology, Volume 19) Softcover
► *€ (D) 64,19 | € (A) 65,99 | sFr 80,00
► € 59,99 | £53.99
ISBN 978-1-4939-1988-8

Due December 2014

2015. Approx. 95 p. 40 illus. in color. Softcover
► approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50
► approx. € 39,99 | £35.99
ISBN 978-3-319-08110-6

A. Tinelli, Vito Fazzi Hospital, Lecce, Italy; **A. Malvasi,** Santa Maria Hospital, Bari, Italy (Eds)

Uterine Myoma, Myomectomy and Minimally Invasive Treatments

Uterine myomas are the most common benign tumors in women, affecting the half of women and mostly in reproductive age. Myomas cause significant morbidity and are the single most common indication for hysterectomy around the world. Thus, myomas represent a major personal and public health concern worldwide. The diagnosis of fibroids can be established based on ultrasound and radiological imaging.

Features
► This book will provide a full knowledge on myomas and their well-known problems ► Each chapter is composed of many illustrations, photographs and images in order to better assist the reader ► This book will help specialists, doctors, fellows and students to quickly and easily understand how to manage women with myomas

Contents
1. Pathophysiology of Uterine Myomas and its Clinical Implications.- 2. Genetics and Genomics of Uterine Myomas.- 3. Uterine Myomas and Histopathology.- 4. Uterine Myomas: Clinical Features.- 5. Uterine Myomas and Fertility .- 6. Uterine Fibroid Pseudocapsule.- 7. Adenomyosis and Adenomyomata.- 8. Imaging of Myomas.- 9. Hysteroscopic Myomectomy.- 10. Myoma Embolization and New Ablation Procedures.- 11. Laparoscopic Myomectomy.- 12. Laparoscopic Assisted Myomectomy.- 13. Robotic Assisted Myomectomy.- 14. Vaginal Myomectomy.- 15. Myoma in Pregnancy.- 16. Cesarean Myomectomy.- 15. Complications of Myomectomy.

Fields of interest
Gynecology; Surgery; Oncology

Target groups
Professional/practitioner

Product category
Collected works

T. Tulandi, McGill University, Montreal, QC, Canada (Ed)

Ectopic Pregnancy

A Clinical Casebook

Comprised exclusively of clinical cases covering ectopic pregnancy, this concise, practical casebook will provide clinicians in reproductive medicine and obstetrics/gynecology with the best real-world strategies to properly diagnose and treat the various forms of the condition they may encounter.

Features
► A cased-based, practical guide to the management of ectopic pregnancy ► Discusses criteria and diagnosis of ectopic pregnancy as well as its many types ► An excellent resource for practicing clinicians, residents and students alike

Contents
Identification of Risk Factors of Ectopic Pregnancy.- Discriminatory Serum hCG level for Ectopic Pregnancy.- Pregnancy of Unknown Location.- Ectopic Pregnancy After In-Vitro Fertilization.- Surgical Treatment of Ectopic Pregnancy.- Bleeding Ectopic Pregnancy.- Medical Treatment of Ectopic Pregnancy.- Compliance with Methotrexate Treatment for Ectopic Pregnancy.- Inadvertent Methotrexate Administration.- Effect of Methotrexate Treatment for Ectopic Pregnancy on Current and Subsequent Pregnancy.- Interstitial Pregnancy.- Cervical Pregnancy.- Ovarian Ectopic Pregnancy.- Cesarean Scar Pregnancy.- Abdominal Pregnancy.- Intramural Pregnancy.- Heterotopic Pregnancy.- Retroperitoneal Ectopic Pregnancy.- Ectopic Molar Pregnancy.- Rudimentary Uterine Horn Pregnancy.- Fertility after Tubal Ectopic Pregnancy.

Fields of interest
Reproductive Medicine; Gynecology

Target groups
Professional/practitioner

Product category
Professional book

P. J. Verveer, Max Planck Institute of Molecular Physio, Dortmund, Germany (Ed)

Advanced Fluorescence Microscopy

Methods and Protocols

This volume provides an overview of advanced fluorescence microscopy, covering a broad range of methods.

Features
► Includes cutting-edge methods and protocols ► Provides step-by-step detail essential for reproducible results ► Contains key notes and implementation advice from the experts

Contents
The Physical Basis Of Total Internal Reflection Fluorescence (TIRF) Microscopy and Its Cellular Applications.- Two-Photon Excitation Microscopy And Its Applications In Neuroscience.- Live Spheroid Formation Recorded with Light Sheet-based Fluorescence Microscopy.- Fluorescence Microscopy Based RNA Interference Screening.- Fluorescence Resonance Energy Transfer Microscopy (FRET).- Localizing Protein-Protein Interactions In Living Cells Using Fluorescence Lifetime Imaging Microscopy.- Analysis Of Biomolecular Dynamics By FRAP And Computer Simulation.- Fluorescence Correlation Spectroscopy.- Homo-FRET Imaging Highlights The Nanoscale Organization Of Cell Surface Molecules.- Practical Structured-Illumination Microscopy.- 4Pi Microscopy of the Nuclear Pore Complex.- Application Of STED Microscopy To Cell Biology Questions.- Three-Dimensional Photoactivated Localization Microscopy With Genetically-Expressed Probes.- Direct Stochastic Optical Reconstruction Microscopy (dSTORM).- Optogenetics: Optical Control Of A Photoactivatable Rac In Living Cells.

Fields of interest
Imaging / Radiology; Biological Microscopy

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XV, 320 p. 236 illus., 195 illus. in color.
Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-10304-4

Due December 2014

2014. Approx. 120 p. 33 illus., 29 illus. in color.
Softcover
► **approx. *€ (D) 48,14 | € (A) 49,49 | sFr 59,50**
► **approx. € 44,99 | £40.99**
ISBN 978-3-319-11139-1

Due November 2014

2015. XII, 320 p. 86 illus., 65 illus. in color. (Methods in Molecular Biology, Volume 1251) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-1-4939-2079-2

M. R. Weir, University of Maryland School of Medicine, Baltimore, MD, USA; **E. V. Lerma,** University of Illinois at Chicago/Advocate, Berwyn, IL, USA (Eds)

Chronic Kidney Disease and Hypertension

The treatment of hypertension has become the most important intervention in the management of all forms of chronic kidney disease.

Features
► Comprehensive up-to-date resource ► Emerging devices are discussed ► Written by expert authors

Contents
Changes in Guideline Trends and Applications in Practice: JNC 2013 and the future.- Central BP monitoring, Home BP Monitoring, Ambulatory BP Monitoring in CKD.- Resistant hypertension in patients with chronic kidney disease.- Neurogenic Factors In Hypertension Associated With Chronic Kidney Disease.- Novel Molecules.- Dual Inhibitors: RAAS Blockers/Combination Therapies: What Do All These Trials Mean?.- Renal Sympathetic Denervation.- Novel baroreceptor activation therapy.- Blood Pressure Vaccines.- Masked Hypertension: Does it Lead to CVD or CKD?.- White Coat Hypertension- Do We Really Understand It Now?.- Uric Acid And Hypertension - Is There Really A Link?.- Preeclampsia: Angiogenic factors, blood pressure, and the kidney.- Inflammation and Hypertension.- Genome-Wide Association Studies (Gwas) Of Blood Pressure In Different Populations.- Endocrine Hypertension and Chronic Kidney Disease.- Hypertension in Children with Chronic Kidney Disease.- Obesity/OSA/Metabolic syndrome in pts with CKD and hypertension-the missing link.

Fields of interest
Cardiology; Nephrology

Target groups
Professional/practitioner

Product category
Contributed volume

J. Weis, University of Freiburg, Freiburg, Germany; **M. Horneber,** Klinikum Nuernberg, Nuremburg, Germany

Cancer-Related Fatigue

Cancer-related fatigue (CrF) is increasingly recognized as a significant problem for patients with cancer at all stages, including those undergoing therapy and in remission. In fact, studies have shown that CrF causes patients more distress than pain, nausea, or vomiting and yet fatigue is still often undertreated and rarely studied. However, several new treatments such as are being investigated to determine the most effective ways to manage this debilitating symptom and improve patient quality of life. Cancer-Related Fatigue will provide a concise overview of this condition, with an evidence-based discussion of diagnosis, treatment, and long-term management.

Features
► An ideal resource for general practitioners, oncologists, nursing specialists, and medical trainees interested in supportive care in oncology ► Includes specifically targeted, clinically-relevant information with aim to positively impact patient care ► An up-to-date, evidence-based discussion of recent drug developments in the cancer supportive care field

Contents
Introduction.- Etiology and pathogenetic factors.- Nonpharmacological treatment of cancer-related fatigue.- Pharmacological treatment of cancer-related fatigue.- Recommendations for the management of cancer-related fatigue.

Fields of interest
Medicine/Public Health, general; Oncology; Internal Medicine

Target groups
Professional/practitioner

Product category
Handbook

H. Yassine, University of Southern California Lipid Clinic, Los Angeles, CA, USA (Ed)

Lipid Management

From Basics to Clinic

The purpose of this work is to provide an update on our understanding of lipids in the clinic using information from recent clinical trials and in special populations.This will be a concise, easy to read book. We will cover LDL, HDL and triglyceride metabolism in the first chapters. We will provide updates from recent HDL trials where raising HDL cholesterol did not translate into reduced cardiovascular events and revisit the role of HDL cholesterol in heart disease (Dr. Yassine). The vast majority of authors are confirmed. Dr. Goran will review lipids abnormalities in children with a particular focus on vulnerable populations (emphasis on ethnicity and childhood obesity). Dr.

Features
► Practical in design with easy to read, bullet pointed chapters ► Comprehensive overview of state of lipid management ► Includes abundant algorithms and tables

Contents
Basics of Lipoprotein Metabolism.- Genetics of Lipid Disorders.- Lipid and Inflammation in Atherosclerosis.- Dyslipidemia: Relationship to Insulin Resistance, Fatty Liver, and Sub-clinical atherosclerosis.- Is low HDL cholesterol a marker of a mediator of cardiovascular disease?.- Approach to the patient with lipid disorders.- The Effects of Diet in Hyperlipidemia.- Statins.- Non-alcoholic Fatty Liver Disease (NAFLD): The Lipid Disease of the Liver and the Effect of Statins.- Statins in Heart Failure.- Statins in Chronic Kidney Disease.- Non-statin therapies.- LDL Apheresis.- Dyslipidemia in HIV.- New and Emerging Lipid Therapies.

Fields of interest
Endocrinology; Pediatrics; General Practice / Family Medicine

Target groups
Professional/practitioner

Product category
Contributed volume

Springer Healthcare

Due November 2014

2015. I, 453 p. 39 illus., 19 illus. in color. (Clinical Hypertension and Vascular Diseases) Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-1-4939-1981-9

Due October 2014

2015. VII, 71 p. 7 illus., 3 illus. in color. Softcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £35.99**
ISBN 978-1-907673-75-7

Due December 2014

2014. Approx. 250 p. 20 illus. Softcover
► **approx. *€ (D) 48,14 | € (A) 49,49 | sFr 59,50**
► **approx. € 44,99 | £40.99**
ISBN 978-3-319-11160-5

A. Youdim, Cedars-Sinai Medical Center, Los Angeles, CA, USA (Ed)

The Clinician's Guide to the Treatment of Obesity

Presenting detailed information on treatment of the obese patient, this handy, concise title is designed not only to educate practitioners about obesity but, most importantly, to provide practical strategies in the comprehensive approach to treating this disease. Replete with bulleted lists and tables for easy referencing, this unique reference provides a comprehensive overview of the pathophysiology and natural history of obesity as well as a thorough review of available treatment options. The book's early chapters discuss the disease of obesity, its corresponding health burden on individuals and society, and the psychosocial morbidity and effect of weight loss.

Features
► Comprehensive text that offers a comprehensive overview of the pathophysiology and natural history of obesity ► Practical, state-of-the-art clinical guidance on diagnosing and treating the obese patient ► Covers nonsurgical and surgical aspects of treatment

Contents
Foreword.- The Disease of Obesity.- The Health Burden of Obesity.- Psychosocial Morbidity and the Effect of Weight Loss.- Dietary and Lifestyle Strategies for Weight Loss.- Physical Activity and Writing an Exercise Prescription.- The Doctor's Tool Kit: Pharmacotherapy for the Patient with Obesity.- Roux-en-Y Gastric Bypass: Procedures and Outcomes.- Sleeve Gastrectomy: Indications, Procedure and Outcomes.- Laparoscopic Adjustable Gastric Banding: Procedures and Outcomes.- Perioperative Care of the Surgical Patient.- Complications of Weight Loss Surgery.

Fields of interest
Internal Medicine; Cardiology; Endocrinology

Target groups
Professional/practitioner

Product category
Professional book

Due March 2015

2015. 299 p. 24 illus., 18 illus. in color. (Endocrine Updates) Softcover
► **approx. *€ (D) 85,59 | € (A) 87,99 | sFr 107,50**
► **approx. € 79,99 | £73.00**
ISBN 978-1-4939-2145-4

G. Zamboni, A.O. Universitaria Integrata, Verona, Italy; **S. Gourtsoyianni,** Guy's & St Thomas' NHS FT, London, UK

MDCT and MRI of the Liver, Bile Ducts and Pancreas

This handbook is a concise practical guide for residents and general radiologists that will offer reliable assistance during the performance and reporting of multidetector row computed tomography and magnetic resonance imaging in patients with Liver Bile Ducts and Pancreas conditions. It is organized alphabetically, primarily according to disease or condition, permitting easy and fast consultation. Entries typically include a short description of pathological and clinical characteristics, guidance on selection of the most appropriate imaging technique, a schematic review of potential diagnostic clues, and useful tips and tricks. Some helpful illustrations and schemes are also included. The book is the fourth in the new Springer handbook series, A-Z Notes in Radiological Practice and Reporting.

Features
► Provides answers to practical questions that arise during day-by-day reporting of MDCT and MRI ► Highlights key imaging findings and aids in selection of imaging technique ► Permits easy and fast consultation

Contents
A-Z Glossary Entries - References.

Fields of interest
Diagnostic Radiology; Oncology; Hepatology

Target groups
Professional/practitioner

Product category
Handbook

Due October 2014

2015. XX, 106 p. 18 illus. (A-Z Notes in Radiological Practice and Reporting) Softcover
► ***€ (D) 32,09 | € (A) 32,99 | sFr 40,00**
► **€ 29,99 | £26.99**
ISBN 978-88-470-5719-7

B. K. Drummond, University of Otago School of Dentistry, Dunedin, New Zealand; **N. Kilpatrick,** Murdoch Children's Research Institute, Parkville Victoria, Australia (Eds)

Planning and Care for Children and Adolescents with Dental Enamel Defects

Aetiology, Research and Contemporary Management

Defective development of tooth enamel or dentin is a significant dental problem for children and adolescents in various respects, and dentists and other oral health workers find managing these problems challenging and stressful.

Features
► Explanation of the problems to aid diagnosis ► Practical management recommendations ► Summary of current research directions

Contents
Introduction.- Prevalence and Aetiology of Enamel Defects.- Syndromes and Diseases Associated with Enamel Defects.- Molar Incisor Hypomineralisation: Prevalence and Diagnosis.- Aetiology.- Impact on Enamel Structure.- Amelogenesis Imperfecta and Other Genetic Enamel Defects.- Syndromes and Diseases Associated with Enamel Defects.- Impact of Defective Enamel on Quality of Life.- Examination and Planning Immediate and Long Term Treatment.- Managing Sensitivity and Prevention of Dental Caries in Teeth with Enamel Defects.- Restorative Management of Primary Teeth.- Restorative and Orthodontic Management of Permanent Teeth from Eruption to the Definitive Restorations.- Improving the Enamel – What are the Possibilities and the Future.- Conclusion.

Field of interest
Dentistry

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. VI, 206 p. 73 illus., 60 illus. in color. Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-3-662-44799-4

R. Younes, Beirut, Lebanon; **G. Khoury,** Osseo Pré-Implantaire Paris VII, Paris, France; **N. Nader,** Lebanese University, Beirut, Lebanon (Eds)

Sinus Grafting Techniques

A Step-by-Step Guide

Placement of endosseous implants in the posterior maxilla is often difficult because of a lack of supporting bone. Sinus augmentation procedures have therefore been extensively used for the treatment of the edentulous atrophic posterior maxilla prior to implant placement. This book describes in detail the most widely used sinus grafting techniques as well as some innovative variations, with full coverage of both lateral and crestal approaches. A key aim is to assist the practitioner in selecting the appropriate sinus grafting technique based on the evaluation of a number of parameters that are described in detail and codified in a simple and practical way. Up-to-date information is also provided on grafting materials and on potential complications of sinus augmentation procedures and their treatment.

Features
► Step-by-step description of the widely used and innovative sinus grafting techniques ► Aid to selection of the appropriate technique based on a variety of parameters ► Up-to-date information on grafting materials ► Advice on potential complications of grafting procedures

Contents
Introduction and Biologic Basis of Sinus Grafting.- Anatomical and Physiological Considerations for Sinus Augmentation.- Update on Grafting Materials.- Lateral Sinus Grafting Approach.- Crestal Sinus Grafting Approach.- Guidelines for Optimal Treatment.- Complications.- Conclusions.

Fields of interest
Dentistry; Oral and Maxillofacial Surgery

Target groups
Professional/practitioner

Product category
Contributed volume

Due December 2014

2015. Approx. 250 p. 130 illus., 100 illus. in color. With DVD. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11447-7

G. Blatch, Victoria University, College of Health and Biomedicine, Melbourne, VIC, Australia; **A. L. Edkins,** Rhodes University, Biomedical Biotechnology Research Unit, Grahamstown, South Africa (Eds)

The Networking of Chaperones by Co-chaperones

Control of Cellular Protein Homeostasis

Features
► This is the only book that specifically reviews the knowledge on co-chaperones as opposed to chaperones ► Excellent information resource for researchers entering the specialized field of cell stress and chaperones ► Excellent information resource for researchers in the broader field of diseases related to protein folding (e.g. Alzheimers)

Contents
Preface.- List of Contributors- About the Editors- GrpE, Hsp110/Grp170, HspBP1/Sil1 and BAG domain proteins: Nucleotide exchange factors for Hsp70 molecular chaperones.- Functions of the Hsp90-Binding FKBP Immunophilins.- Hsp70/Hsp90 organising protein (Hop): beyond interactions with chaperones and prion proteins.- Specification of Hsp70 function by Type I and Type II Hsp40.- Cdc37 as a Co-chaperone to Hsp90.- p23 and Aha1- UCS proteins: chaperones for myosin and co-chaperones for Hsp90.- Chaperonin - Co-chaperonin Interactions.- Co-chaperones of the mammalian endoplasmic reticulum.- The evolution and function of co-chaperones in mitochondria.- CHIP: a co-chaperone for degradation by the proteasome.- The role of HSP70 and its co-chaperones in protein misfolding, aggregation and disease.- Index

Fields of interest
Biomedicine general; Life Sciences, general; Biochemistry, general

Target groups
Research

Product category
Contributed volume

Due January 2015

2015. Approx. 350 p. 34 illus., 28 illus. in color. (Subcellular Biochemistry, Volume 78) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11730-0

Current Topics in Microbiology and Immunology

M. D. Cooper, P. K. Vogt, R. Ahmed, Series editor: **M. B. Oldstone, Y. Kawaoka, K. Aktories, T. Honjo, R. W. Compans, B. Malissen, R. Rappuoli, J. E. Galan, Y. Y. Gleba**

Volume 385

R. W. Compans, Emory University, Atlanta, GA, USA; **M. B. Oldstone,** The Scripps Research Institute, La Jolla, CA, USA (Eds)

Influenza Pathogenesis and Control - Volume I

Contents
The Hemagglutinin - a Determinant of Pathogenicity.- Molecular determinants of pathogenicity in the polymerase complex.- Receptor binding properties of the influenza virus hemagglutinin as a determinant of host range.- Acid-induced membrane fusion by the hemagglutinin protein and its role in influenza virus biology.- Pandemic Preparedness and the Influenza Risk Assessment Tool (IRAT).- Avian influenza virus transmission to mammals.- Transmission in the Guinea Pig Model.- Enhancement of influenza virus transmission by gene reassortment.- Swine and Influenza: A Challenge to One Health Research.- Influenza Pathobiology and Pathogenesis in Avian Species.- Molecular determinants of influenza virus pathogenesis in mice.- Mammalian models for the study of H7 virus pathogenesis and transmission.- Pathogenesis and vaccination of influenza A virus in swine.- Secondary Bacterial Infections in Influenza Virus Infection Pathogenesis.- Evolution and Ecology of Influenza A viruses.- Influenza A virus reassortment.- Antigenic Analyses of Highly Pathogenic Avian Influenza A Viruses.

Fields of interest
Virology; Immunology; Infectious Diseases

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. 400 p. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11154-4

S. J. Corey, Chicago, IL, USA; **M. Kimmel,** Rice University, Houston, TX, USA; **J. N. Leonard,** Northwestern University Comprehensive Cancer Center, Evanston, IL, USA (Eds)

A Systems Biology Approach to Blood

Contents
Part I: Basic Components.- Systems Hematology: An Introduction.- Quantification and Modeling of Stem Cell - Niche Interaction.- Angiogenesis: A Systems Biology View of Blood Vessel Remodeling.- Erythropoiesis: From Molecular Pathways to System Properties.- Systems Biology of Megakaryocytes.- Systems Biology of Platelet-Vessel Wall Interactions.- Systems Approach to Phagoycte Production and Activation: Neutrophils and Monocytes.- Part II: Physiological Processes.- Stochasticity and Determinism in Models of Hematopoiesis.- Systems Analysis of High–Throughput Data.- Developing a Systems-Based Understanding of Hematopoietic Stem Cell Cycle Control.- A Systems Biology Approach to Iron Metabolism.- Innate Immunity in Disease - Insights from Mathematical Modeling and Analysis.- Modeling Biomolecular Site Dynamics in Immunoreceptor Signaling Systems.- Structure and Function of Platelet Receptors Initiating Blood Clotting.- Part III: Clinical Applications.- Understanding and Treating Cytopenia through Mathematical Modeling.- Drug Resistance.- Etiology and Treatment of Hematological Neoplasms: Stochastic Mathematical Models.- Assessing Hematopoietic (Stem-) Cell Behavior during Regenerative Pressure.- Engineered Cell-Based Therapies: A Vanguard of Design-Driven Medicine.- Part IV: Epilogue.- A Systems Approach to Blood Disorders.- Index.

Fields of interest
Biomedicine general; Systems Biology; Hematology

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. I, 731 p. 73 illus., 52 illus. in color. (Advances in Experimental Medicine and Biology, Volume 844) Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-1-4939-2094-5

G. D. Dakubo, Thunder Bay, ON, Canada

Cancer Biomarkers in Body Fluids

There is an obvious need for cancer biomarkers that can easily be measured and monitored in a noninvasive fashion using either nonspecific (circulation) or tissue-specific body fluids. The clinical application of body fluid markers, especially circulating protein targets in cancer management is not new. However, availability of modern sensitive technologies that have enabled the discovery of several "omics" cancer biomarkers in body fluids is accelerating at an exponential rate. Of even much importance are cancers located in remote parts of the body that are not easily accessible - e.g., ovarian, lung, and pancreatic cancers. The need for coordinated validation of such biomarkers by industries, regulatory bodies, and academics for clinical translation is urgent. This book provides both an extensive coverage of the use of body fluid biomarkers for cancer-personalized medicine. It offers a critical, albeit easy to comprehend thesis of the numerous cancer targets assayed in body fluids, and also provides synopsis of commercially available products.

Features
► Presents cancer biomarkers for noninvasive diagnosis of 18 different body fluids ► Shows prospectives for a coordinated validation of cancer biomarkers by industries, regulatory bodies, and academics for clinical translation ► Presents opportunities for cancer personalized medicine

Contents
PART ONE: Synopsis Of Cancer Biomarkers.- PART TWO: Cancer Biomarkers In Circulation.- PART THREE: Cancer Biomarkers In Tissue-Specific Body Fluids.

Fields of interest
Human Genetics; Oncology; Cancer Research

Target groups
Research

Product category
Handbook

Due June 2015

2015. Approx. 400 p. 110 illus., 30 illus. in color.
Hardcover
► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **approx. € 149,99 | £135.00**
ISBN 978-3-319-01579-8

P. V. Devarajan, Institute of Chemical Technology, Department of Pharmaceutical Sciences and Technology, Mumbai, India; **S. Jain,** National Institute of Pharmaceutical Education and Research (NIPER), Centre for Pharmaceutical Nanotechnology, Department of Pharmaceutics, Mohali, India (Eds)

Targeted Drug Delivery

Concepts and Design

Contents
1 Targeted Drug Delivery Systems – Strategies and Challenges.- 2 Recent Advances in Tumor Targeting Approaches.- 3 Infectious Diseases: Need for Targeted Drug Delivery.- 4 Image-Guided Delivery of Therapeutics to the Brain.- 5 Inhalation Therapy for Pulmonary Tuberculosis .- 6 Hepatic Targeting: Physiological Basis and Design Strategy.- 7 Targeted Drug Delivery to the Mitochondria.- 8 Targeted Delivery of Nucleic Acid Therapeutics via Non-viral Vectors.- 9 Mucosal Vaccine Delivery and M Cell Targeting.- 10 Stimuli responsive carriers: Magnetically, Thermal and pH Assisted Drug Delivery.- 11 Prodrug Conjugate Strategies for Targeted Anticancer Drug Delivery Systems.- 12 Polymer-Drug Conjugates for Targeted Drug Delivery.- 13 Functionalized Lipid Particulates in Targeted Drug Delivery.- 14 Nanoemulsions in Drug Targeting.- 15 Multifunctional Polymeric Nano-Carriers in Targeted Drug Delivery.- 16 Polymeric Micelles in Targeted Drug Delivery.- 17 Dendritic Polymers in Targeted Drug Delivery.- 18 Inorganic Nanoparticles in Targeted Drug Delivery and Imaging.- 19 Carbon-based Nanomaterials for Targeted Drug Delivery and Imaging.- 20 Physical and Biophysical Characteristics of Nanoparticles: Potential Impact on Targeted Drug Delivery.- 21 In Vivo Imaging Techniques of the Nanocarriers used for Targeted Drug Delivery.- 22 Evaluation of Lung Toxicity of Biodegradable Nanoparticles.- 23 Nanotoxicology: Contemporary Issues and Future Directions.

Field of interest
Pharmaceutical Sciences/Technology

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. IV, 798 p. 124 illus., 103 illus. in color.
(Advances in Delivery Science and Technology)
Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-3-319-11354-8

G. Donelli, Fondazione Santa Lucia IRCCS, Rome, Italy (Ed)

Biofilm-based Healthcare-associated Infections Volume I

The aim of this book is to provide readers with a wide overview of the main healthcare-associated infections caused by bacteria and fungi able to grow as biofilm. The recently acquired knowledge on the pivotal role played by biofilm-growing microorganisms in healthcare-related infections has given a new dynamic to detection, prevention and treatment of these infections in patients admitted to both acute care hospitals and long-term care facilities.

Features
► Provides readers with a wide overview of the main healthcare-associated infections ► Contains recently acquired knowledge on the pivotal role played by biofilm-growing microorganisms in healthcare-related infections ► Includes most innovative strategies for prevention and treatment

Contents
Biofilm Formation by Clinical Isolates and its Relevance to Clinical Infections.- Biofilm-based implant infections in orthopaedics.- Clinical and Microbiological Aspects of Biofilm-Associated Surgical Site Infections.- Peri-implant infections of oral biofilm etiology.- Microbiological diversity of peri-implantitis biofilms.- Anaerobes in biofilm-based healthcare-associated infections.- Microbial biofilm development on neonatal enteral feeding tubes.- Voice prostheses, microbial colonization and biofilm formation.- Microbial composition and antibiotic resistance of biofilms recovered from endotracheal tubes of mechanically ventilated patients.- Biofilm and Central Line Associated Bloodstream Infections.

Fields of interest
Medical Microbiology; Bacteriology; Infectious Diseases

Target groups
Research

Product category
Contributed volume

Due October 2014

2014. XIV, 187 p. 39 illus., 29 illus. in color. (Advances in Experimental Medicine and Biology, Volume 830)
Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11037-0

T. Fischer, University Medicine Greifswald, GANI_MED – Greifswald Approach to Individualized Medicine, Greifswald, Germany; **M. Langanke, P. Marschall,** University of Greifswald, GANI_MED – Greifswald Approach to Individualized Medicine, Greifswald, Germany; **S. Michl,** University Medicine of Johannes Gutenberg-University Mainz, Institute for History, Theory and Ethic of Medicine, Mainz, Germany (Eds)

Individualized Medicine

Ethical, Economical and Historical Perspectives

In 2009 the University Medicine Greifswald launched the "Greifswald Approach to Individualized Medicine" (GANI_MED) to implement biomarker-based individualized diagnostic and therapeutic strategies in clinical settings. Individualized Medicine (IM) has led not only to controversies about its potentials, but also about its societal, ethical and health economic implications.

Features
► A comprehensive and well-grounded outline of Individualized Medicine ► Presentation and assessment of concrete examples based on multi-year research ► Intensive discussion of barriers for translation concept of Individualized Medicine into clinical routine

Contents
Preface.- Introduction.- Definition and concept of Individualized Medicine.- Perspectives of socio-cultural and historical studies.- Medical perspectives.- Concept-based ethical questions.- Applied research ethics.- Health economic assessment of Individualized Medicine.- Conclusions and recommendations.- Index.

Fields of interest
Biomedicine general; Theory of Medicine/Bioethics; Ethics

Target groups
Research

Product category
Contributed volume

Due January 2015

2015. Approx. 370 p. (Advances in Predictive, Preventive and Personalised Medicine, Volume 7)
Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-3-319-11718-8

A. Guglietta, Independent Pharmaceutical Consultant, Barcelona, Spain (Ed)

Drug Treatment of Sleep Disorders

Following reviews on sleep physiology, regulation, pharmacology, and the neuronal networks regulating sleep and awakening, as well as a classification of sleep disorders, this book presents a number of major breakthroughs in the treatment of those disorders. These include recently approved drugs for treating insomnia, such as Doxepin; variations on previously approved molecules, e.g. Zolpidem sublingual preparation; or new chemical entities in advanced stages of clinical development, e.g.

Features
► Maximizes reader insights into recent breakthrough in drug treatment ► Describes drug development from bench to clinic ► Treats both basic research and clinical applications

Contents
An overview of sleep physiology and sleep regulation.- Neuronal networks regulating sleep and arousal: effect of drugs.- Classification of sleep disorders.- Development of new therapeutical agents for treatment of insomnia and other sleep disorders.- Low dose doxepin for insomnia.- Lorediplon: a new GABAa modulator drug for treatment of insomnia.- Zolpidem sublingual formulations.- Eszopiclone: review and clinical applications in chronic and co-morbid insomnia.- Orexin/hypocretin antagonists in insomnia: from bench to clinic.- Modafinil and armodafinil.- Sodium oxybate (Xyrem®): a new and effective treatment for narcolepsy with cataplexy.- Cell therapy to treat narcolepsy.- Tasimelteon.- The past, present and future of drug development and treatment in sleep disorders.

Fields of interest
Pharmacology/Toxicology; Neurosciences; Pharmacotherapy

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 250 p. (Milestones in Drug Therapy)
Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-3-319-11513-9

JIMD Reports

G. Brown, E. Morava (Eds)**, K. M. Gibson,** Editor-in-chief: **J. Zschocke,** Managing editor: **V. Peters**

Volume 18

J. Zschocke, Medical University Innsbruck, Innsbruck, Austria; **K. M. Gibson,** WSU Division of Health Sciences Clinical Pharmacology Unit, Spokane, WA, USA; **G. Brown,** University of Oxford, Oxford, UK; **E. Morava,** Tulane University Medical School Hayward Genetics Center, New Orleans, LA, USA; **V. Peters,** Heidelberg University Hospital Centre for Child & Adolescent Med, Heidelberg, Germany (Eds)

JIMD Reports - Case and Research Reports, Volume 18

JIMD Reports publishes case and short research reports in the area of inherited metabolic disorders. Case reports highlight some unusual or previously unrecorded feature relevant to the disorder, or serve as an important reminder of clinical or biochemical features of a Mendelian disorder.

Features
► Unique collection of case and research reports on rare metabolic disorders ► Contains unusual or previously unrecorded features relevant to metabolic disorders ► All contributions rigorously peer-reviewed

Fields of interest
Human Genetics; Metabolic Diseases; Pediatrics

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 150 p. Softcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44862-5

JIMD Reports

G. Brown, E. Morava (Eds), **K. M. Gibson,** Editor-in-chief: **J. Zschocke,** Managing editor: **V. Peters**

Volume 16

J. Zschocke, Medical University Innsbruck, Innsbruck, Austria; **K. M. Gibson,** WSU Division of Health Sciences Clinical Pharmacology Unit, Spokane, WA, USA; **G. Brown,** University of Oxford, Oxford, UK; **E. Morava,** Tulane University Medical School Hayward Genetics Center, New Orleans, LA, USA; **V. Peters,** Heidelberg University Hospital Centre for Child & Adolescent Med, Heidelberg, Germany (Eds)

JIMD Reports - Case and Research Reports, Volume 16

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Contents
Different Case Studies

Fields of interest
Human Genetics; Metabolic Diseases; Pediatrics

Target groups
Research

Product category
Contributed volume

Due October 2014

2014. Approx. 150 p. Softcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44586-0

JIMD Reports

G. Brown, E. Morava (Eds), **K. M. Gibson,** Editor-in-chief: **J. Zschocke,** Managing editor: **V. Peters**

Volume 17

J. Zschocke, Medical University Innsbruck, Innsbruck, Austria; **K. M. Gibson,** WSU Division of Health Sciences Clinical Pharmacology Unit, Spokane, WA, USA; **G. Brown,** University of Oxford, Oxford, UK; **E. Morava,** Tulane University Medical School Hayward Genetics Center, New Orleans, LA, USA; **V. Peters,** Heidelberg University Hospital Centre for Child & Adolescent Med, Heidelberg, Germany (Eds)

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Different Case Studies.

Fields of interest
Human Genetics; Metabolic Diseases; Pediatrics

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. Approx. 150 p. Softcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44577-8

D. Keppler, A. W. Lin, Touro University California, Vallejo, CA, USA (Eds)

Cervical Cancer

Methods and Protocols

Contents
Evolution and Classification of Oncogenic Human Papillomavirus Types and Variants Associated with Cervical Cancer.- A Real-Time PCR Approach Based on SPF10 Primers and the INNO-LiPA HPV Genotyping Extra Assay for the Detection and Typing of Human Papillomavirus.- Replication of Human Papillomavirus in Culture.- HPV Binding Assay to Laminin-332/Integrin α6β4 on Human Keratinocytes.- Methods to Assess the Nucleocytoplasmic Shuttling of the HPV E1 Helicase and Its Effects on Cellular Proliferation and Induction of a DNA Damage Response.- Genetic Methods for Studying the Role of Viral Oncogenes in the HPV Life Cycle.- Robust HPV-18 Production in Organotypic Cultures of Primary Human Keratinocytes.- A High-Throughput Cellular Assay to Quantify the p53-Degradation Activity of E6 from Different Human Papillomavirus Types.- Retroviral Expression of Human Cystatin Genes in HeLa Cells.- Molecular Analysis of Human Papillomavirus Virus-Like Particle Activated Langerhans Cells In Vitro.- Selective Silencing of Gene Target Expression By siRNA Expression Plasmids in Human Cervical Cancer Cells.- Silencing of E6/E7 Expression in Cervical Cancer Stem-Like Cells.- Two-Step Procedure for Evaluating Experimentally Induced DNA Damage: Texas Red and Comet Assays.- Measurement of Deubiquitinating Enzyme Activity Via a Suicidal HA-Ub-VS Probe.- Immunocytochemical Analysis of the Cervical Pap Smear.- Diagnosis of HPV-Negative, Gastric-Type Adenocarcinoma of the Endocervix.- Targeting of the HPV-16 E7 Protein by RNA Aptamers.- The Use of MYBL2 as a Novel Candidate Biomarker of Cervical Cancer. [...]

Fields of interest
Cancer Research; Pharmacy

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XII, 440 p. 70 illus., 42 illus. in color. (Methods in Molecular Biology, Volume 1249) Hardcover
► ***€ (D) 117,69 | € (A) 120,99 | sFr 146,50**
► **€ 109,99 | £99.00**
ISBN 978-1-4939-2012-9

J. B. Leach, University of Maryland, Baltimore, MD, USA; **E. M. Powell,** University of Maryland, College Park, MD, USA (Eds)

Extracellular Matrix

Contents

Immunohistochemical Characterization of Brain Neural and Vascular Basement Membranes.- The Use of Synaptic Basal Lamina and Its Components to Identify Sites of Recent Morphological Alterations at Mammalian Neuromuscular Junctions.- Perineuronal Nets: A Special Structure in the Central Nervous System Extracellular Matrix.- Isolation of Perinatal Mouse Cerebral Cortical Astrocytes.- Techniques for Examining the Effect of Substratum Bound Proteoglycans on Neurite Outgrowth In Vitro.- High-Throughput Quantitative Assay for Analyzing Neurite Outgrowth on a Uniform Substratum: The Cell-Substratum Assay.- Extracellular Matrix Components as a Substrate for Outgrowing Motoneurons.- Replicating the In Vivo Environment: Organotypic and Submerged Three-Dimensional Culture Methods.- Culturing Neurons, Glia, and Progenitor Cells in Three-Dimensional Hydrogels.- Investigating Cell-ECM Interactions and ECM Synthesis in Three-Dimensional Hydrogels.- Characterization and Analysis of Extracellular Matrix in Malignant Brain Tumors and Their Cellular Derivatives.- Chondroitinase Gene Therapy for Spinal Cord Injury.- Modulation of Neural Stem Cell Expressed Extracellular Matrix (ECM) by Targeting Glycosyltransferases.- Evaluating the Spatial and Temporal Protein Production in Neural Tissue Engineering Constructs In Vitro.- Cultivation and Imaging of Astrocytes on Protein-Coated Fluorescent Topographies Constructed from Aligned PLLA Electrospun Fibers.- Engineered Microdevices to Study and Manipulate Neural Stem Cell Chemotaxis. [...]

Fields of interest

Neurosciences; Neurobiology

Target groups

Professional/practitioner

Product category

Contributed volume

Due November 2014

2015. X, 220 p. 47 illus., 23 illus. in color. (Neuromethods, Volume 93) Hardcover

► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**

► **€ 94,99 | £85.50**

ISBN 978-1-4939-2082-2

G. Lee, J. Illes, University of British Columbia, Vancouver, BC, Canada; **F. Ohl,** University Uetrecht, Uetrecht, The Netherlands (Eds)

Ethical Issues in Behavioral Neuroscience

Contents

Section I. Experimental Animal Research.- Ethical Issues Associated with the Use of Animal Experimentation in Behavioural Neuroscience Research.- The use of animal models in behavioural neuroscience research.- Does the goal justify the methods? Harm and Benefit in Neuroscience Research Using Animals.- A Framework for investigating animal consciousness.- Telos, Conservation of Welfare, and Ethical Issues in Genetic Engineering of Animals.- Would the elimination of the capacity to suffer evolve ethical dilemmas in experimental animal research?.- Section II. Clinical Research.- Ethics of human research in behavioral neuroscience: Overview of section II.- What's special about the ethical challenges of studying disorders with altered brain activity?.- Effects of brain injury on moral agency: Ethical dilemmas in investigating human behavior.- Genetic testing and neuroimaging for youth at risk for mental illness: Trading off benefit and risk.- Externalization of consciousness: Scientific possibilities and clinical implications.- How does enhancing cognition affect human values? How does this translate into social responsibility?.- Deep brain stimulation: A principled and pragmatic approach to understanding the ethical and clinical challenges of an evolving technology.- Ethical issues and ethical therapy associated with anxiety disorders.- Just like a circus: The public consumption of sex differences.- Money and morals: Ending clinical trials for financial reasons.

Fields of interest

Neurosciences; Theory of Medicine/Bioethics; Law, general

Target groups

Research

Product category

Contributed volume

Due November 2014

2014. Approx. 330 p. (Current Topics in Behavioral Neurosciences, Volume 19) Hardcover

► **approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00**

► **approx. € 149,99 | £135.00**

ISBN 978-3-662-44865-6

L. Lossi, A. Merighi, University of Torino, Grugliasco, Italy (Eds)

Neuronal Cell Death

Methods and Protocols

Contents

Neuronal Cell Death: An Overview of its Different Forms in Central and Peripheral Neurons.- Cell Volume Regulation Monitored with Combined Epifluorescence and Digital Holographic Microscopy.- Flow Cytometric Analysis of DNA Synthesis and Apoptosis in Central Nervous System Using Fresh Cell Nuclei.- Nuclear Signs of Pre-Neurodegeneration.- Multi-Parametric O2 Imaging in Three-Dimensional Neural Cell Models with the Phosphorescent Probes.- Calcium Imaging in Neuron Cell Death.- Monitoring Mitochondrial Membranes Permeability in Live Neurons and Mitochondrial Swelling through Electron Microscopy Analysis.- Real-Time Visualization of Caspase-3 Activation by Fluorescence Resonance Energy Transfer (FRET).- Design and Cloning of Short Hairpin RNAs (shRNAs) into a Lentiviral Silencing Vector to .- Genomic Analysis Using Affymetrix Standard Microarray GeneChips (169 Format) in Degenerate Murine Retina.- Genomic Analysis of Transcriptional Changes Underlying Neuronal Apoptosis.- High-Throughput Cell Death Assays.- Image Analysis Algorithms for Immunohistochemical Assessment of Cell Death.- In Vitro Oxygen-Glucose Deprivation to Study Ischemic Cell Death.- Laser Microbeam Targeting of Single Nerve Axons in Cell Culture.- Real-Time Imaging of Retinal Cell Apoptosis by Confocal Scanning Laser Ophthalmoscopy.- Targeted Toxicants to Dopaminergic Neuronal Cell Death.- Stem Cells, Neural Progenitors, and Engineered Stem Cells.- Herpes Simplex Virus Type 1 (HSV-1)-Derived Recombinant Vectors for Gene Transfer and Gene Therapy. [...]

Fields of interest

Neurosciences; Apoptosis

Target groups

Professional/practitioner

Product category

Contributed volume

Due November 2014

2015. 350 p. 83 illus., 43 illus. in color. (Methods in Molecular Biology, Volume 1254) Hardcover

► ***€ (D) 117,69 | € (A) 120,99 | sFr 146,50**

► **€ 109,99 | £99.00**

ISBN 978-1-4939-2151-5

J. H. Moore, DHMC, Geisel School of Medicine, Lebanon, NH, USA; **S. M. Williams,** Institute of Quantitative Biomedical Sciences, Hanover, NH, USA (Eds)

Epistasis

Methods and Protocols

Features
► Includes cutting-edge methods and protocols ► Provides step-by-step detail essential for reproducible results ► Contains key notes and implementation advice from the experts

Contents
Long Term Selection Experiments: Epistasis and The Response To Selection.- Finding the Epistasis Needles in the Genome-Wide Haystack.- Biological Knowledge-Driven Analysis of Epistasis in Human GWAS with Application to Lipid Traits.- Epistasis for Quantitative Traits in Drosophila.- Epistasis In The Risk Of Human Neuropsychiatric Disease.- On the Partitioning of Genetic Variance with Epistasis.- Measuring Gene Interactions.- Two Rules for the Detection and Quantification of Epistasis and other Interaction Effects.- Direct Approach to Modeling Epistasis.- Capacitating Epistasis - Detection and Role in the Genetic Architecture of Complex Traits.- Compositional Epistasis: An Epidemiologic Perspective.- Identification Of Genome—Wide SNP—SNP and SNP—Clinical Boolean Interactions In Age—Related Macular Degeneration.- Epistasis Analysis Using Information Theory.- Genome-Wide Epistasis and Pleiotropy Characterized by the Bipartite Human.- Network Theory for Data-Driven Epistasis Networks.- Epistasis Analysis Using Multifactor Dimensionality Reduction.- Epistasis Analysis Using ReliefF.- Epistasis Analysis Using Artificial Intelligence.

Field of interest
Human Genetics

Target groups
Professional/practitioner

Product category
Contributed volume

T. Nozaki, National Inst. of Infectious Diseases, Tokyo, Japan; **A. Bhattacharya,** Jawaharlal Nehru University, New Delhi, India (Eds)

Amebiasis

Biology and Pathogenesis of Entamoeba

Contents
Preface.- 1 Introduction.- 2 The continuously expanding universe of Entamoeba.- 3 The genomics of Entamoebae: insights and challenges.- 4 Multilocus sequence typing system (MLST): Genetic diversity and genetic components to virulence.- 5 The tRNA gene-linked STRs and other genetic typing methods.- 6 Genetic manipulation techniques.- 7 Surveying Entamoeba histolytica transcriptome using massively parallel cDNA sequencing.- 8 Ribosomal RNA Genes and their Regulation in Entamoeba histolytica.- 9 Small RNAs and regulation of gene expression in Entamoeba histolytica.- 10 The Biology of Retrotransposition in Entamoeba histolytica.- 11 Entamoeba histolytica: Bridging the gap between environmental stress and epigenetic regulation.- 12 Phagocytosis in Entamoeba histolytica.- 13 Signalling pathways in E. histolytica.- 14 Transmembrane Kinases and their role in E. histolytica pathogenesis.- 15 Cell surface molecules as virulence determinants in Entamoeba histolytica.- 16 Mechanism of cell division in Entamoeba histolytica.- 17 Molecular basis of the trafficking of cysteine proteases and other soluble lysosomal proteins in Entamoeba histolytica.- 18 Mitosomes in Entamoeba histolytica.- 19 Metabolomic analysis of Entamoeba biology.- 20 Glucose metabolism and its controlling mechanisms in Entamoeba histolytica.- 21 Structural Biology of Cysteine Biosynthetic Pathway Enzymes.- 22 Archetypical and specialized DNA replication proteins in Entamoeba histolytica.- 23 Pathology, pathogenesis and experimental amebiasis.- 24 Innate Host Defenses in the Gut. [...]

Fields of interest
Parasitology; Bacteriology; Pathology

Target groups
Research

Product category
Monograph

Current Topics in Microbiology and Immunology

M. D. Cooper, P. K. Vogt, R. Ahmed, Series editor: **M. B. Oldstone, Y. Kawaoka, K. Aktories, T. Honjo, R. W. Compans, B. Malissen, R. Rappuoli, J. E. Galan, Y. Y. Gleba**

Volume 386

M. B. Oldstone, The Scripps Research Institute, La Jolla, CA, USA; **R. W. Compans,** Emory University, Atlanta, GA, USA (Eds)

Influenza Pathogenesis and Control - Volume II

Contents
The role of cytokine responses during influenza virus pathogenesis and potential therapeutic options.- Innate immune sensing and response to influenza.- The NS1 protein: a multitasking virulence factor.- Role of NK cells in influenza infection.- Host detection and the stealthy phenotype in influenza virus infection.- Inactivated and adjuvanted influenza vaccines.- Live attenuated influenza vaccine.- Design of alternative live attenuated influenza virus vaccines.- Rapid production of synthetic influenza vaccines.- Influenza neuraminidase as a vaccine antigen.- Advances in universal influenza virus vaccine design and antibody mediated therapies based on conserved regions of the hemagglutinin.- Structural characterization of epitopes recognized by broadly cross-reactive antibodies.- Skin immunization with influenza vaccines.- Mucosal immunization and adjuvants.- B cell responses to infection and vaccination.- Memory CD4 T cells in influenza.- The effector T cell response to influenza infection.- Influenza pathogenesis and control.

Fields of interest
Immunology; Vaccine; Infectious Diseases

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XII, 388 p. 58 illus., 27 illus. in color. (Methods in Molecular Biology, Volume 1253) Hardcover
► ***€ (D) 117,69 | € (A) 120,99 | sFr 146,50**
► **€ 109,99 | £99.00**
ISBN 978-1-4939-2154-6

Due November 2014

2015. X, 635 p. 83 illus., 51 illus. in color. Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-4-431-55199-7

Due December 2014

2015. 400 p. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11157-5

J. A. Rall, Ohio State University, Columbus, OH, USA

Mechanism of Muscular Contraction

This book describes the evolution of ideas relating to the mechanism of muscular contraction since the discovery of sliding filaments in 1954. An amazing variety of experimental techniques have been employed to investigate the mechanism of muscular contraction and relaxation.

Features
► Describes the evolution of muscular contraction concepts since the discovery of sliding filaments ► Includes detailed scientific histories of principal investigators in the field ► Features information on contraction coupling and the role of calcium in contraction and relaxation

Contents
Setting the Stage: Myosin, Actin, Actomyosin and ATP.- Birth of the Sliding Filament Model of Muscular Contraction: Proposal.- Glory Days: Establishment of the Sliding Filament Model of Muscular Contraction in the 1950s and 1960s.- Excitation-Contraction Coupling and the Role of Calcium in Contraction and Relaxation in the 1950s and 1960s.- Mechanics and Energetics of Muscular Contraction: Before Sliding Filaments and into the Modern Era.- 1972 Cold Spring Harbor Symposia On Quantitative Biology: The Mechanism of Muscle Contraction. Problem Solved??.- Endosarcomeric and Exosarcomeric Cytoskeleton: Emergence of Cell and Molecular Biology in the Muscle Field.- Excitation-contraction Coupling and Regulation of Contraction in Skeletal Muscle: The Modern Synthesis.- Molecular Mechanism of Force Production: From the Difficult 1980s to the Supercharged 1990s and Beyond.- Index.

Fields of interest
Human Physiology; History of Science; Biomedicine general

Target groups
Professional/practitioner

Product category
Monograph

Reviews of Physiology, Biochemistry and Pharmacology

B. Nilius, R. Lill, O. H. Petersen, R. Jahn, S. Offermanns, Series editor: **T. Gudermann**

Volume 167

B. Nilius, Sint Agatha Rode, Belgium (Ed)

Reviews of Physiology, Biochemistry and Pharmacology, Vol. 167

The highly successful Reviews of Physiology, Biochemistry and Pharmacology continue to offer high-quality, in-depth reviews covering the full range of modern physiology, biochemistry and pharmacology.

Features
► Provides high quality, in-depth reviews covering the full range of modern physiology, biochemistry and pharmacology ► Aims to filter, highlight and review the latest development in these rapidly advancing fields ► Each author is an international, well-respected expert and specially invited to provide a complete understanding of key topics in their particular area of research

Contents
The TRPA1 channel in inflammatory and neuropathic pain and migraine.- Glial calcium signalling in Alzheimer's Disease.- The "sweet" side of ion channels.- Role of the Pharmacoresistant Type (E-/R-Type) in Cardiac Modulation and Putative Implication in Sudden Unexpected Death in Epilepsy (SUDEP).

Fields of interest
Neurosciences; Human Physiology; Pain Medicine

Target groups
Research

Product category
Contributed volume

A. Sing, Bavarian Health and Food Safety Authority, Oberschleißheim, Germany (Ed)

Zoonoses - Infections Affecting Humans and Animals

Focus on Public Health Aspects

The book will cover the most important zoonoses with a public health impact and debate actual developments in this field from a One Health perspective. The outline of the book follows a "setting" approach, i.e. special settings of zoonoses with a public health aspect, rather than presenting a simple textbook of an encyclopedic character.

Features
► One Health perspective: books dealing with zoonoses from a One Health perspective under a broader and interdisciplinary scale do not exist ► "Setting" rather than encyclopedic approach: books dealing with zoonoses with a public health aspect do not exist ► Interdisciplinary perspective with special interest chapters and reflection of currently debated issues appeal to students, professionals and interested public

Contents
Part I Zoonoses in food-chain animals with public health relevance.- Part II Zoonoses in food-chain and domestic animals: focus on antibiotic resistance.- Part III Important zoonoses in non-food animals.- Part IV Zoonoses in domestic animals.- Part V Zoonoses of wildlife species.- Part VI Waterborne Zoonoses.- Part VII Emerging and re-emerging zoonoses.- Part VIII Nature is the greatest bioterrorist: Zoonotic pathogens as bioterroristic agents.- Part IX Controversial or non-resolved issues.- Part X Economic and ecological aspects of zoonoses.- Index.

Fields of interest
Medical Microbiology; Infectious Diseases; Veterinary Medicine

Target groups
Professional/practitioner

Product category
Contributed volume

Due October 2014

2014. X, 850 p. 177 illus., 32 illus. in color. (Perspectives in Physiology) Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-1-4939-2006-8

Due January 2015

2014. X, 100 p. 20 illus. in color. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11920-5

Due November 2014

2015. I, 1316 p. 40 illus., 20 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-94-017-9456-5

I. Somasundaram, National Institute of Nutrition (ICMR), Chennai, India (Ed)

Stem Cell Therapy for Organ Failure

Contents

PART A: Stem Cells: Science/Concepts and Database.- 1. Promises of Stem Cells in Research and Therapeutics.- 2. Considerations for Culturing and Preserving Adult Stem Cells For Therapeutics.- 3. Bioinformatics Tool-Box for Stem Cell Research and Therapeutics.- PART B: Stem Cells and Organ Systems.- Section I: Nervous System.- 4. Stem Cell Therapy and Neurologic Disorders: Bench to Bedside.- 5. Stem Cells and Neuronal Differentiation.- Section II: Cardiovascular System.- 6. Stem Cell Therapy For Cardiac Regeneration Post Myocardial Infarction.- 7. Endothelial Progenitor Cells: Its Applications in Vascular Medicine.- Section III: Musculo Skeletal System.- 8. Bone Marrow versus Dental Pulp Stem Cells in Osteogenesis.- 9. Adipose Derived Stem Cells: In Musculoskeletal Disorders.- Section IV: Hematopoietic System.- 10. Fetal Blood Research: A Brief Perspective on the Present, Past and Future of this Exciting Field.- 11. An Outline on Hematopoietic Stem Cell Transplantation.- 12. Placental Umbilical Cord Whole Blood and Nuclear Disaster Management: A Possibility.- 13. Mesenchymal Stem Cell Treatment Option to Manage Autoimmune Disorders A Technically Feasible Integration.- Section IV: Gastrointestinal System.- 14. Overview of Pancreatic Replacement of β-Cells from Various Cell Sources.- 15. Feto-Maternal Mesenchymal Stem Cell Transplantation For Treating Diabetes.- 16. Stem Cell Therapy for Acute and Chronic Liver Failure.- 17. Use of Stem Cells to Block the Activation of Hepatic Stellate Cells in Diseased Liver.- Section V: Reproductive System.- 18. Stem Cells of Reproductive System: At a Glance.- 19. Stem Cells of Human Endometrium: Trash to Treasure. [...]

Fields of interest

Biomedicine general; Cell Biology; Stem Cells

Target groups

Professional/practitioner

Product category

Contributed volume

Due November 2014

2015. Approx. 300 p. 47 illus., 42 illus. in color. Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-81-322-2109-8

R. J. Sullivan, Massachusetts General Hospital, Boston, MA, USA (Ed)

BRAF Targets in Melanoma

Biological Mechanisms, Resistance, and Drug Discovery

This volume contains a collection of writings from the leaders in the fields of Molecular Biology and Melanoma Research which will begin to tell the ever-expanding story of the most recent findings, discoveries, and potential of BRAF-directed targets in melanoma. Recent research has shown that BRAF inhibitors are effective for a short period of time, but there is little hope that this drugs as single agents will lead to durable benefit in a majority of patients.

Features

► Examines BRAF-directed targets in melanoma including molecular biology/signal transduction, molecular diagnostics, immunology, and next-generation analytics ► Highlights and summarizes the unique biological mechanisms of how BRAF-inhibitors work and why they ultimately fail ► Explores combinations of molecular targeted therapy and how molecular targeted therapy may interact with immune-based therapy

Contents

Melanoma: Historical Context.- Melanoma Pathogenesis.- Molecular Diagnostics and Tumor Mutational Analysis.- Clinical Utility of BRAF-targeted therapy in Melanoma.- The Ethics of Randomized Trials in Oncology.- Parallel and Serial Blockade Strategies in BRAF-Mutant Melanoma.- Targeting the cell cycle and p53 in combination with BRAF-directed therapy.- Combination BRAF-directed therapy and immunotherapy.- Moving Forward: Making BRAF-Targeted Therapy Better

Fields of interest

Cancer Research; Molecular Medicine; Medical Microbiology

Target groups

Research

Product category

Contributed volume

Due February 2015

2014. X, 221 p. 26 illus., 21 illus. in color. (Cancer Drug Discovery and Development, Volume 82) Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-1-4939-2142-3

B. Sun, Institute of Biochemistry and Cell Biology Chinese Academy of Sciences, Shanghai, China (Ed)

T Helper Cell Differentiation and Their Function

This book will focus on the differentiation and regulation of subsets of CD4+ T cells. It will also cover other aspects of research on these cells, which has made great advances in recent years, such as subsets' plasticity and their role in healthy and disease conditions. The book provides researchers and graduate students with a cutting-edge and comprehensive overview of essential research on CD4+ T cells.

Features

► Summarizes cutting-edge research on CD4+ T cells differentiation ► Covers all major subsets of CD4+ T cells, as well as two untypical ones, Th9 and Th22 ► Suggests potential applications associated with CD4+ T cells in the clinic

Contents

Overview of orchestration of CD4+ T cell subsets in immune responses.- Th1/Th2 cell differentiation and molecular signals.- Th1/Th2 cell's function in immune system.- Regulatory T Cell differentiation and their function in immune regulation.- Th17 differentiation and their pro-inflammation function.- Tfh Cell differentiation and their function in promoting B cell responses.- Differentiation, Regulation and Function of Th9 Cell.- The biology and functions of Th22 cell

Fields of interest

Immunology; Cell Biology; Developmental Biology

Target groups

Research

Product category

Monograph

Due October 2014

2014. X, 296 p. 22 illus., 21 illus. in color. (Advances in Experimental Medicine and Biology, Volume 841) Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-94-017-9486-2

M. Vinken, V. Rogiers, Vrije Universiteit Brussel, Brussels, Belgium (Eds)

Protocols in In-Vitro Hepatocyte Research

Contents
Isolation And Culture Of Mouse Hepatocytes: Gender-Specific Gene Expression Responses To Chemical Treatments.- Cryopreservation of Hepatocytes.- Culture Conditions Promoting Hepatocyte Proliferation And Cell Cycle Synchronization.- Immortalized Human Hepatic Cell Lines For In Vitro Testing And Research Purposes.- Culture and Functional Characterization Of Human Hepatoma Hepg2 Cells.- Establishment And Characterization Of An In Vitro Model Of Fas-Mediated Hepatocyte Cell Death.- Serum-Free Directed Differentiation Of Human Embryonic Stem Cells To Hepatocytes.- Human Skin-Derived Precursor Cells: Isolation, Expansion And Hepatic Differentiation.- Generation Of Hepatocytes From Pluripotent Stem Cells For Drug Screening and Developmental Modeling.- Differentiation-Promoting Medium Additives For Hepatocyte Cultivation and Cryopreservation.- Co-Culture and Long-Term Maintenance Of Hepatocytes.- Primary Hepatocytes In Sandwich Culture.- Establishing Liver Bioreactors For In Vitro Research.- Epigenetic Modifications As Anti-Dedifferentiation Strategy For Primary Hepatocytes In Culture.- Transfection Of Primary Hepatocytes With Liver-Enriched Transcription Factors Using Adenoviral Vectors.- Transcriptomics Of Hepatocytes Treated With Toxicants For Investigating Molecular Mechanisms Underlying Hepatotoxicity.- Global Microrna Analysis In Primary Hepatocyte Cultures.- Mass Spectrometry-Based Proteomics For Relative Protein Quantification And Biomarker Identification In Primary Human Hepatocytes. [...]

Field of interest
Pharmacology/Toxicology

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XIV, 402 p. 71 illus., 39 illus. in color. (Methods in Molecular Biology, Volume 1250) Hardcover
► ***€ (D) 117,69 | € (A) 120,99 | sFr 146,50**
► **€ 109,99 | £99.00**
ISBN 978-1-4939-2073-0

X. Yan, Tianjin, China (Ed)

Dan Shen (Salvia miltiorrhiza) in Medicine

Volume 1. Biology and Chemistry

This book reviews research on Dan Shen, compiles data from clinical trials and biological experiments, and summarizes the latest research advances. It covers the medicinal herb, herbal pieces, and new proprietary drugs that contain it; it also covers simple and compound, traditional and contemporary formulas, and addresses a broad range of subjects, including: standardized cultivation; biodiversity; effective substances and their biological activities; quality control; and clinical trials. The book goes on to present the clinical trials on Dantonic, especially focusing on its therapeutic effects for coronary heart disease. It discusses compound prescriptions and compatibilities, from the herbal piece level to composition level, and describes approaches to research on modern Chinese medicine. Volume 1 describes the biology and chemistry of Dan Shen, while Volume 2 focuses on pharmacology and quality control.

Features
► Introduces the scientific research and evidence based medicine of Dan Shen ► Present the clinical trials on Dantonic for coronary heart disease ► Offers the research and development experience for other Traditional Chinese Medicine

Contents
Materia Medica and Plant Resource.- Distribution and Habitat of Danshen.- Biological Characters of Danshen.- A Study on the Cultivation of Danshen.- Danshen's in vitro Culture.- Genetics and Breeding of Danshen.- Water Soluble Components of Danshen.- Liposoluble chemical constituents in Danshen.

Fields of interest
Pharmacology/Toxicology; Complementary & Alternative Medicine; Cardiology

Target groups
Research

Product category
Contributed volume

Due November 2014

Jointly published with People's Medical Publishing House, Beijing, China

Distribution rights for China: People's Medical Publishing House, Beijing, China

2015. XXV, 287 p. 94 illus., 2 illus. in color. Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-94-017-9468-8

X. Yan, Tianjin, China (Ed)

Dan Shen (Salvia miltiorrhiza) in Medicine

Volume 2. Pharmacology and Quality Control

This book reviews research on Dan Shen, compiles data from clinical trials and biological experiments, and summarizes the latest research advances.

Features
► Introduces the scientific research and evidence based medicine of Dan Shen ► Present the clinical trials on Dantonic for coronary heart disease ► Offers the research and development experience for other Traditional Chinese Medicine

Contents
Overview of Modern Research on Danshen.- The Pharmacological Actions of Danshen ThemeD Formulas.- Active Constituents in Danshen and Their Pharmacological Actions.- Danshen's effects on the cardiovascular system.- Protective Effects of Danshen on Cerebral Vessels and the Nervous System.- Effect of Danshen on the Blood System and Microcirculatory Function.- Preventive and therapeutic effects of Danshen on digestive system diseases.- The Effects of Danshen on Respiratory Diseases and Their Mechanisms.- The Effects of Danshen on Kidney Diseases.- The Anti-tumor Effects of Danshen.- Studies on the Anti-bacterial and Anti-inflammatory.- Qualitative Research.- General Quality Control Methods.- Content Determination.- Fingerprint Study.- Quality Control of Dantonic™.- In Vivo Metabolism of Danshen and its Preparations.

Fields of interest
Pharmacology/Toxicology; Complementary & Alternative Medicine; Cardiology

Target groups
Research

Product category
Contributed volume

Due November 2014

Jointly published with People's Medical Publishing House, Beijing, China

Distribution rights for China: People's Medical Publishing House, Beijing, China

2015. XXV, 776 p. 254 illus., 65 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-94-017-9462-6

X. Yan, Tianjin, China (Ed)

Dan Shen (Salvia miltiorrhiza) in Medicine

Volume 3. Clinical Research

This book reviews research on Dan Shen, compiles data from clinical trials and biological experiments, and summarizes the latest research advances.

Features
► Introduces the scientific research and evidence based medicine of Dan Shen ► Present the clinical trials on Dantonic for coronary heart disease ► Offers the research and development experience for other Traditional Chinese Medicine

Contents
Application in Medicine Systems.- Application in Surgical Systems.- Application in Orthopaedics and Traumatology.- Application in Pediatrics.- Application in Gynecology.- Application in Ophthalmology and Otorhinolaryngology.- Application in Other Diseases.- Precautions, Side-Effects and Adverse Reactions.- Overview of Dantonic™.- Therapeutic Effects of Dantonic™ on Coronary Heart Disease.- The Therapeutic Effect of Dantonic™ on High Risk Factors of Coronary Heart Disease.- The Effect of Dantonic™ on Diabetes and its Serious.- Effect of Dantonic™ on Prevention of High Altitude Myocardial Hypoxidosis.- The Mechanism of Dantonic™ in Treating Coronary Heart Disease.- Toxicity and Side-Effects of Dantonic™.- Effect of Dantonic™ on the treatment of Other Diseases.- Ancient and Modern Literature Research on Danshen Prescriptions.

Fields of interest
Pharmacology/Toxicology; Complementary & Alternative Medicine; Cardiology

Target groups
Research

Product category
Contributed volume

Due November 2014

Jointly published with People's Medical Publishing House, Beijing, China

Distribution rights for China: People's Medical Publishing House, Beijing, China

2015. XXXII, 360 p. 46 illus., 6 illus. in color. Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-94-017-9465-7

L.-R. Zhao, SUNY Upstate Medical College, Syracuse, NY, USA; **J. H. Zhang,** Loma Linda University School of Medicine Depts of Physiology, Loma Linda, CA, USA (Eds)

Cellular Therapy for Stroke and CNS Injuries

Cellular therapy for stroke and neural trauma has gained worldwide attention during the last decade and has shown some promising results. Various cells, including neural stem cells, bone marrow stem cells, endothelial progenitor cells, and many others have had protective or regenerative effects in animal models. The proposed book will address recent research on all relevant cell types. In addition, it will provide information on cell isolation and culture skills, transplantation methods, and neurological functional evaluations. This is the first book to focus on cellular therapy for stroke and other CNS injuries.

Features
► First book to summarize cellular therapy for stroke ► Comprehensive overview of all the cell types that can be used therapeutically ► Guide book intended for researchers, clinicians, and professionals

Contents
Basic studies for neural stem cells in the brain.- Basic studies for neural stem cells in the brain.- The role of endogenous neural stem cells in ischemic stroke.- Bone marrow mesenchymal stromal cell-a neurorestorative therapy for stroke.- Cord Blood as a Treatment for Stroke.- The role of endothelial progenitor cells in stroke.- Endothelial progenitor cell therapy in stroke.- Adipose-derived stem cells: isolation and culturing.- Transplantation of adipose-derived stem cells in stroke.- Endogenous Neurogenesis after Traumatic Brain Injury.

Fields of interest
Neurosciences; Neurology; Stem Cells

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. I, 481 p. 22 illus., 20 illus. in color. (Springer Series in Translational Stroke Research) Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11480-4

M. Galluccio, EANAM European Association for Negotiation and Mediation, Brussels, Belgium (Ed)

Handbook of International Negotiation

Interpersonal, Intercultural, and Diplomatic Perspectives

Contents
Section I Decision Making Approaches to Negotiation.- 1.Representative Decision Making: Challenges to Democratic Peace Theory.- 2.Tacit knowledge awareness and its role in Improving the Decisions-making process in international negotiations.- 3.A Psychotherapeutic View of Decision Making: Implications for Peaceful Negotiations.- 4.Moral disengagement in "War fever." How Can We Resist?.- Section II Re-framing Approaches to Negotiation.- 5.The Biology of Cooperative decision-making: Neurobiology to International Relations.- 6.Psychological Dynamics of Insight: Relevance to International Negotiation.- 7.Why is it so Difficult to Resolve Intractable Conflicts Peacefully? A Socio-Psychological Explanation.- 8.Dignity in Negotiation: Its Transforming Power.- Section III Conflict Management and International Negotiation.- 9.Negotiating Conflict Transformations.- 10.The Evolution of Readiness Theory.- 11.Why is Mediation So Hard? The Case of Syria.- 12.Underpinning Conflict Prevention by International Cooperation.- Section IV Emotions Regulation in Negotiation.- 13.Improving Negotiation Effectiveness with Skills of Emotional Competence.- 14.International Negotiation and Emotional Intelligence.- 15.From Conflict to Peace through Emotional Regulation and Co-operation.- 16.Mindfulness Based Training for Negotiators: Fostering Resilience in the Face of Stress.- Section V Cognitive and Behavioural Approach to Negotiation. [...]

Fields of interest
Cross Cultural Psychology; Clinical Psychology; Political Science, general

Target groups
Research

Product category
Handbook

Due November 2014

2015. XVIII, 478 p. 7 illus., 3 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10686-1

G. Gotsis, Z. Kortezi, National and Kapodistrian University of Athens, Ano Ilissia, Athens, Greece

Critical Studies in Diversity Management Literature

A Review and Synthesis

This book critically examines current workplace diversity management practices and explores a nuanced framework for undertaking, supporting, and implementing policies that equally favor all people.

Features
► Critically examines current workplace diversity management practices ► Explores a nuanced framework for undertaking, supporting, and implementing policies that equally favor all people ► Presents critical perspectives that not only elevate respect for differences but also provide insights into the nature and dynamics of differences in view of a more inclusive organizational environment

Contents
Chapter 1: Workplace Diversity: A Resource or a Source of Conflict?.- Chapter 2: Different Approaches to Managing a Diverse Workforce.- Chapter 3: The Rhetoric of Diversity Management: How Critical Diversity Studies Explicate Organizational Appropriation of Differences.- Chapter 4: The Social Construction of Diversity Discourses: Critical Perspectives on Diversity Management, Power and Inequality.- Chapter 5: Operationalizing Critical Diversity Theories: A Contextual Framework of Implementing New Diversity Practices.

Fields of interest
Industrial, Organisational and Economic Psychology; Organizational Studies, Economic Sociology; Human Resource Management

Target groups
Research

Product category
Brief

Due October 2014

2015. I, 106 p. (SpringerBriefs in Psychology)
Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-94-017-9474-9

C. Hanvey, Lamorinda Consulting, LLC., San Diego, CA, USA; **K. Sady,** DCI Consulting Group, Washington, DC, USA (Eds)

Practitioner's Guide to Legal Issues in Organizations

This book provides sound practical guidance on an array of specific hot button legal issues relevant to I/O practitioners and HR generalists. The core skillset possessed by many I/O psychologists can help inform a variety of legal issues beyond simple test validation, but little information is available that outlines the legal issues to which I/O principles can be applied or the specific methods that can be applied in response to such issues. Each chapter is devoted to a specific legal issue, and chapter content includes an overview of the issues, useful I/O methods to inform on the issue, and specific examples (case studies) that illustrate the best practices of application of I/O content knowledge to the specific issue.

Features
► Provides practical and specific guidance that can be used in both an academic setting and as a playbook for dealing with real organizational issues ► Written for both the I/O practitioner audience and for the broader audience interested in employment litigation issues ► Each chapter focuses on a specific legal issue

Contents
Adverse Impact Analysis.- Test Validation: Strategies.- Test Validations: Pitfalls.- Equal Pay.- Disability.- Wage and Hour.- Criminal Background and Credit Checks.- Physical abilities.- Public sector issues.

Fields of interest
Industrial, Organisational and Economic Psychology; Law and Psychology; Consulting - Supervision - Coaching

Target groups
Professional/practitioner

Product category
Professional book

Due February 2015

2015. Approx. 300 p. Hardcover
► **approx. *€ (D) 64,19 | € (A) 65,99 | sFr 79,00**
► **approx. € 59,99 | £53.99**
ISBN 978-3-319-11142-1

R. R. Heredia, Texas A&M International University, Laredo, TX, USA; **J. Altarriba,** State University of New York, Albany, Albany, NY, USA (Eds)

Foundations of Bilingual Memory

Foundations of Bilingual Memory provides a valuable update to the field of bilingual memory and offers a new psychological perspective on how the bilingual mind encodes, stores, and retrieves information. This volume emphasizes theoretical issues, such as classic memory approaches, Compound-Coordinate Bilingualism, Bilingual Dual Coding Theory, and Working Memory, about which relatively little has been written in the bilingual domain.

Features
► Book stresses a memory perspective, focusing on encoding, storage, and retrieval, as related to bilingual processes ► Book prepares teachers to teach the bilingual individual, while understanding the bilingual mind ► Discusses the latest theories and empirical methods used in the study of bilingual memory

Contents
Section I. Bilingual Models.- The Classic Bilingual Memory View: How Everything Started.- Bilingual Memory Models.- Bilingual Dual Coding Theory.- Connectionist Models of Bilingual Memory.- Models of Lexical Access and Bilingualism.- Section II. Episodic, Semantic, and Working Memory.- Episodic Memory.- Semantic Memory.- Explicit vs. Implicit Memory.- Emotion and Memory.- False Memories.- Working Memory.- Section III. The Neuroscience of Bilingual Memory.- The Neuroscience of Bilingual Memory.- Hemispheric Differences and Memory Storage.

Fields of interest
Cognitive Psychology; Linguistics (General)

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due January 2015

2014. XIV, 297 p. 40 illus., 5 illus. in color. Softcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-1-4939-1700-6

V. Konstam, University of Massachusetts Boston, Boston, MA, USA

Emerging and Young Adulthood

Multiple Perspectives, Diverse Narratives

The most distinctive feature of the Second Edition is its theoretical orientation coupled with a focus on understanding emerging and young adulthood from multiple perspectives.

Features
► Debunks established pernicious stereotypes about emerging and young adults ► Synthesizes interviews with more than 120 emerging and young adults, parents, and employers ► Focuses on career experimentation versus career floundering ► Examines effects of technology as well as depression and anxiety on emerging and young adults

Contents
Chapter 1. Emerging and Young Adults: Introduction.- Chapter 2. Identity.- Chapter 3. Culture: Opening Paths, Creating Detours.- Chapter 4. The Virtual Life Alongside: Technology and the Emerging and Young Adult.- Chapter 5. The "Tyranny" of Choice: A Reexamination of the Prevailing Narrative.- Chapter 6. Voices of Emerging and Young Adults: In Pursuit of a Career Path.- Chapter 7. Floundering or Experimenting: Finding a Vocational Home.- Chapter 8. Voices of Emerging and Young Adults: From the Professional to the Personal.- Chapter 9. Parental Voices: "Adjustment Reactions to Children's Adult Life".- Chapter 10. Voices of Employers: Overlapping and Disparate Views.- Chapter 11. Running on Empty, Running on Full.- Appendix A. Methods.- Appendix B. Emerging and Young Adult Questionnaire.- Appendix C. Parent Questionnaire.- Appendix D. Employer Questionnaire.

Fields of interest
Child and School Psychology; Social Work; Educational Psychology

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2nd ed. 2015. XII, 226 p. (Advancing Responsible Adolescent Development) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11300-5

M. K. Miller, University of Nevada, Reno, Reno, NV, USA; **J. A. Blumenthal,** Syracuse University College of Law, Syracuse, NY, USA; **J. Chamberlain,** Argosy University, Phoenix, AZ, USA (Eds)

Handbook of Community Sentiment

Contents
Section I:An Introduction to Community Sentiment.- 1. "There Ought to be a Law!": Understanding Community Sentiment.- 2.The Influence of Media and Community Sentiment on Policy Decision-Making.- 3.Methods and Measures Used in Gauging Community Sentiment.- Section II: Measuring Community Sentiment.- 4.Using Mock Jury Studies to Measure Community Sentiment toward Child Sex Abusers.- 5.Using Secondary Survey Data to Study Community Sentiment: An Example Examining Sentiment toward Income Based on Family Needs.- 6.Understanding how Individual Differences are Related to Community Sentiment toward Safe Haven Laws Using a Student Sample.- 7.Using Mail Surveys to Assess Perceptions of Law Enforcement Officers and Prosecuting Attorneys Regarding Parental Involvement Laws.- Section III: Changing Community Sentiment.- 8.Understanding Changes in Community Sentiment about Drug Use during Pregnancy using a Repeated Measures Design.- 9.Sentiment toward Same-Sex Divorce.- 10.Changing the Sentiment of those the Law Affects: Federal Marriage Promotion Programs.- 11.How Attitude Functions, Attitude Change, and Beliefs affect Community Sentiment toward the Facebook Law.- Section IV: Community Sentiment and Perceptions of Justice.- 12.Promoting Positive Perceptions of Justice by Listening to Children's Sentiment in Custody Decisions. [...]

Fields of interest
Law and Psychology; Community and Environmental Psychology; Psychological Methods/Evaluation

Target groups
Research

Product category
Handbook

Due November 2014

2015. X, 620 p. 3 illus., 2 illus. in color. Hardcover
► ***€ (D) 266,43 | € (A) 273,90 | sFr 331,50**
► **€ 249,00 | £224.50**
ISBN 978-1-4939-1898-0

S. J. Morewitz, California State University, East Bay, San Francisco, CA, USA

Kidnapping and Violence

New Research and Clinical Perspectives

This book analyzes kidnapping in three general ways. First, kidnapping, including the threat of kidnapping, reflects a breakdown in the mechanisms of social control in society. At the level of interpersonal relations, the weakening of social control processes allows kidnappers to function in different situations and for diverse motives. This book addresses such questions as: What are the conditions under which kidnappers can evade social control by abducting or threatening to abduct another person? What factors trigger the response of social control mechanisms to kidnappers or attempted kidnappers? How effective are the institutional responses to abductions.

Features
► Analyzes kidnapping, including the threat of kidnapping ► Evaluates why and under what conditions governments, para-military and terrorist groups decide to abduct individuals and groups ► Assesses the extent to which social change modifies these cultural patterns

Contents
Partner Kidnapping and Hostage-Taking.- Bride Abduction.- Family Abduction in the United States.- International Family-Child Abduction.- Non-Family Juvenile Abduction.- Responses to Abducted Children.- Infant Abduction.- Kidnapping by Cesarean Section and State-Sponsored Abduction of Newborns.- Human Trafficking.- Ransom Kidnapping.- Kidnapping: Carjacking and Related Crimes.- Aircraft Hijacking.- Maritime Piracy and Kidnapping.- Kidnapping Hoaxes.

Fields of interest
Psychology Research; Clinical Psychology

Target groups
Research

Product category
Monograph

Due February 2015

2015. Approx. 250 p. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 127,50**
► **approx. € 99,99 | £86.50**
ISBN 978-1-4939-2116-4

J. L. Wildman, R. Griffith, Florida Institute of Technology, Melbourne, FL, USA (Eds)

Leading Global Teams

Translating Multidisciplinary Science to Practice

Contents
Leading Global Teams Means Dealing with Different.- Part I: Foundations of Global Teams.- Culture, Communication, and Conflict: A Review of the Global Virtual Team Literature.- Project GLOBE for Scientists and Practitioners: Drawing Clarity from Controversy.- Structuring Successful Global Virtual Teams.- Part II: Adapting Global Teams.- Team Training for Global Virtual Teams: Strategies for Success.- Developing Cross-Cultural Competencies through Global Teams.- Coaching Global Teams and Global Team Leaders.- Navigating Multicultural Teams: A Road Map to Feedback across Cultures.- Part III: Leading Global Teams.- Alternate Views of Global Leadership: Applying Global Leadership Perspectives to Leading Global Teams.- Leadership for Global Virtual Teams: Facilitating Teamwork Processes.- Can We Count on You at a Distance? The Impact of Culture on Formation of Swift Trust within Global Virtual Teams.- Faultline Deactivation: Dealing with Activated Faultlines and Conflicts in Global Teams.- Global Teams in the Military.- Looking Forward: Meeting the Global Need for Leaders through Guided Mindfulness.

Fields of interest
Industrial, Organisational and Economic Psychology; Psychological Methods/Evaluation

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2015. X, 392 p. 5 illus., 3 illus. in color. Hardcover
► **approx. *€ (D) 64,15 | € (A) 65,95 | sFr 79,00**
► **approx. € 59,95 | £53.99**
ISBN 978-1-4939-2049-5

C. Willis-Esqueda, B. H. Bornstein, University of Nebraska Dept. Psychology, Lincoln, NE, USA (Eds)

The Witness Stand and Lawrence S. Wrightsman, Jr.

Features
► Volume will provide "state of the art" chapters on a number of topics at the forefront of psycho-legal research ► Contributors' expertise covers the vast majority of topics that now define the field of psychology and the law ► Chapters reflects Larry Wrightsman's expansive contributions and sets the stage for any scholar or would-be scholar in the field

Contents
Introduction: Psychology and Law (Past, present, future).- Larry Wrightsman: A Pioneer in Injecting Social- Psychological Knowledge into the Legal System.- Psychological science on eyewitness identification and the U.S. Supreme Court: Reconsiderations in light of DNA exonerations and the science of Eyewitness Identification.- The Psychology of False Confessions: History and Current Status.- The Credibility of Witnesses.- Into the Lion's Den: Expert Testimony on Eyewitness Reliability and the Psychology of Interrogations.- Identifying juror bias: Moving from assessment and prediction to a new generation of jury selection research.- Multidisciplinary Research in Psychology and Law: Evidence from the Study of Judges' Religion.- and its Place in the United States Legal System.- Psychological Science and Assumptions in Law: Bankruptcy, Disclosure, and Emotional Consumers.- Undergraduate education in psychology and law.- Lawrence S. Wrightsman, Jr.

Fields of interest
Law and Psychology; Industrial, Organisational and Economic Psychology; Psychotherapy and Counseling

Target groups
Research

Product category
Contributed volume

Due December 2014

2014. Approx. 300 p. Hardcover
► **approx. *€ (D) 128,35 | € (A) 131,95 | sFr 157,00**
► **approx. € 119,95 | £106.50**
ISBN 978-1-4939-2076-1

R. Agarwal, Texas A&M University Kingsville, Kingsville, TX, USA; **D. O'Regan,** National University of Ireland, Galway, Ireland; **S. Saker,** Mansoura University, Mansoura, Egypt

Dynamic Inequalities On Time Scales

This is a monograph devoted to recent research and results on dynamic inequalities on time scales. The study of dynamic inequalities on time scales has been covered extensively in the literature in recent years and has now become a major sub-field in pure and applied mathematics. In particular, this book will cover recent results on integral inequalities, including Young's inequality, Jensen's inequality, Holder's inequality, Minkowski's inequality, Steffensen's inequality, Hermite-Hadamard inequality and Čebyšv's inequality. Opial type inequalities on time scales and their extensions with weighted functions, Lyapunov type inequalities, Halanay type inequalities for dynamic equations on time scales, and Wirtinger type inequalities on time scales and their extensions will also be discussed here in detail.

Features
► Provides an analysis of a variety of important integral inequalities ► Using Halanay's inequalities and the properties of exponential function on time scales, this book establishes new conditions that lead to stability for nonlinear dynamic equations ► Develops a unified approach to handling multiple dynamic systems simultaneously using the recently-developed theory of dynamic systems on time scales

Contents
Preliminaries.- Basic Inequalities.- Opial Inequalities.- Lyapunov Inequalities.- Halanay Inequalities.- Wirtinger Inequalities.

Fields of interest
Functional Analysis; Several Complex Variables and Analytic Spaces; Measure and Integration

Target groups
Research

Product category
Monograph

Due November 2014

2014. X, 240 p. Hardcover
► ***€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **€ 84,99 | £76.50**
ISBN 978-3-319-11001-1

R. Agarwal, Texas A&M University Kingsville, Kingsville, TX, USA; **S. Sen,** GVP-Prof. V. Lakshmikantham Institute for Advanced Studies, Visakhapatnam, India

Creators of Mathematical and Computational Sciences

The book records the essential discoveries of mathematical and computational scientists in chronological order, following the birth of ideas on the basis of prior ideas ad infinitum. The authors document the winding path of mathematical scholarship throughout history, and most importantly, the thought process of each individual that resulted in the mastery of their subject. The book implicitly addresses the nature and character of every scientist as one tries to understand their visible actions in both adverse and congenial environments. The authors hope that this will enable the reader to understand their mode of thinking, and perhaps even to emulate their virtues in life.

Features
► A comprehensive biography on some of the seminal figures of mathematics and theoretical computer science from early to modern history ► Implicitly addresses the nature and character of each scientist to understand their visible actions in both adverse and congenial environment ► Documents the path of mathematical scholarship throughout history, and the thought process of each individual that resulted in the mastery of their subject

Contents
Preface.- Introduction.- Creators.- References.- Author Index.- Subject Index.

Field of interest
History of Mathematical Sciences

Target groups
Research

Product category
Monograph

Due November 2014

2014. XX, 460 p. 5 illus. Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-3-319-10869-8

K. Ammari, University of Monastir, Monastir, Tunisia; **S. Nicaise,** Univ. de Valenciennes et du Hainaut Cambrésis, Valenciennes, France

Stabilization of Elastic Systems by Collocated Feedback

By introducing a new stabilization methodology, this book characterizes the stability of a certain class of systems. The stability (exponential, polynomial, or weaker) for the closed loop problem is reduced to an observability estimate for the corresponding uncontrolled system combined with a boundedness property of the transfer function of the associated open loop system. A similar strategy is applied to systems where a delay term is added. The book concludes with many concrete examples. This book is addressed to graduate students in mathematics or engineering and also to researchers with an interest in stabilization and control systems governed by partial differential equations.

Features
► Describes a general methodology for stabilization problems ► Gives an introduction to systems with delay ► Two chapters are devoted to the study of numerous concrete examples

Contents
Some backgrounds.- Stabilization of second order evolution equations by a class of unbounded feedbacks.- Stabilization of second order evolution equations with unbounded feedback with delay.- Asymptotic behaviour of concrete dissipative systems.- Systems with delay.- Bibliography

Fields of interest
Partial Differential Equations; Systems Theory, Control

Target groups
Research

Product category
Monograph

Due November 2014

2014. XX, 164 p. 3 illus., 2 illus. in color. (Lecture Notes in Mathematics, Volume 2124) Softcover
► ***€ (D) 37,44 | € (A) 38,49 | sFr 47,00**
► **€ 34,99 | £31.99**
ISBN 978-3-319-10899-5

S. Axler, San Francisco State University, San Francisco, CA, USA

Linear Algebra Done Right

This best-selling textbook for a second course in linear algebra is aimed at undergrad math majors and graduate students. The novel approach taken here banishes determinants to the end of the book. The text focuses on the central goal of linear algebra: understanding the structure of linear operators on finite-dimensional vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. The third edition contains major improvements and revisions throughout the book. More than 300 new exercises have been added since the previous edition. Many new examples have been added to illustrate the key ideas of linear algebra. New topics covered in the book include product spaces, quotient spaces, and dual spaces.

Features
► New edition extensively revised and updated ► Covers new topics such as product spaces, quotient spaces, and dual spaces ► Features new visually appealing format for both print and electronic versions ► Includes almost three times the amount of exercises as the previous edition

Contents
-Preface to the Instructor.-Preface to the Student.-Acknowledgments.-1. Vector Spaces.- 2. Finite-Dimensional Vector Spaces.- 3. Linear Maps.- 4. Polynomials.- 5. Eigenvalues, Eigenvectors, and Invariant Subspaces.- 6. Inner-Product Spaces.- 7. Operators on Inner-Product Spaces.- 8. Operators on Complex Vector Spaces.- 9. Operators on Real Vector Spaces.- 10. Trace and Determinant.-Photo Credits.-Symbol Index.-Index.

Field of interest
Linear and Multilinear Algebras, Matrix Theory

Target groups
Lower undergraduate

Product category
Undergraduate textbook

Due November 2014

3rd ed. 2014. XVIII, 348 p. 25 illus. in color. (Undergraduate Texts in Mathematics) Hardcover
► ***€ (D) 48,14 | € (A) 49,49 | sFr 60,00**
► **€ 44,99 | £40.99**
ISBN 978-3-319-11079-0

J. Banasiak, University of KwaZulu-Natal, Durban, South Africa; **M. Mokhtar-Kharroubi,** UFR des Sciences et Techniques, Besançon, France (Eds)

Evolutionary Equations with Applications in Natural Sciences

Features
► Unique combination of mathematical methods and their applications to analysis of models from natural sciences ► Unique blend of analytic and probabilistic methods for evolutionary equation ► Comprehensive presentation of main methods of analysis of deterministic fragmentation and coagulation models ► Comprehensive exposition of probabilistic methods for long term dynamics of evolution equations ► Up to date presentation of pattern formations ► Numerics for flows in complex geometries

Contents
Wilson Lamb: Applying functional analytic techniques to evolution equations.- Adam Bobrowski: Boundary conditions in evolutionary equations in biology.-Ernesto Estrada: Introduction to Complex Networks: Structure and Dynamics.-Jacek Banasiak: Kinetic models in natural sciences.-Philippe Laurençot: Weak compactness techniques and coagulation equations.- Ryszard Rudnicki: Stochastic operators and semigroups and their applications in physics and biology.- Mustapha Mokhtar-Kharroubi: Spectral theory for neutron transport.-Anna Marciniak-Czochra: Reaction-diffusion-ODE models of pattern formation.- Mapundi Kondwani Banda: Nonlinear Hyperbolic Systems of Conservation Laws and Related Applications.

Fields of interest
Partial Differential Equations; Mathematical and Computational Biology; Mathematical Physics

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XVII, 508 p. 58 illus., 37 illus. in color. (Lecture Notes in Mathematics, Volume 2126) Softcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11321-0

M. Barot, Universidad Nacional Autónoma de México, Mexico City, Mexico

Introduction to the Representation Theory of Algebras

This book gives a general introduction to the theory of representations of algebras. It starts with examples of classification problems of matrices under linear transformations, explaining the three common setups: representation of quivers, modules over algebras and additive functors over certain categories. The main part is devoted to (i) module categories, presenting the unicity of the decomposition into indecomposable modules, the Auslander–Reiten theory and the technique of knitting; (ii) the use of combinatorial tools such as dimension vectors and integral quadratic forms; and (iii) deeper theorems such as Gabriel's Theorem, the trichotomy and the Theorem of Kac – all accompanied by further examples. Each section includes exercises to facilitate understanding.

Features
► A down-to-earth approach to the subject ► Introduces all established descriptions within the field ► Provides detailed and comprehensible proofs for all statements

Contents
Matrix Problems.- Representations of Quivers.- Algebras.- Module Categories.- Elements of Homological Algebra.- The Aulander-Reiten Theory.- Knitting.- Combinatorial Invariants.- Indecomposables and Dimensions.

Fields of interest
Associative Rings and Algebras; Category Theory, Homological Algebra; General Algebraic Systems

Target groups
Upper undergraduate

Product category
Undergraduate textbook

Due March 2015

2015. Approx. 190 p. Softcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **approx. € 39,99 | £35.99**
ISBN 978-3-319-11474-3

G. M. Bergman, University of California- Berkeley, Berkeley, CA, USA

An Invitation to General Algebra and Universal Constructions

Rich in examples and intuitive discussions, this book presents General Algebra using the unifying viewpoint of categories and functors. Starting with a survey, in non-category-theoretic terms, of many familiar and not-so-familiar constructions in algebra (plus two from topology for perspective), the reader is guided to an understanding and appreciation of the general concepts and tools unifying these constructions.

Features
► Reviews many concrete examples of universal constructions, motivating the development of general algebra and the category-theoretic view of universal constructions ► Enriches the reader's intuition of the abstract theory through many informal discussions ► Provides a large number of engaging exercises

Contents
1 About the course, and these notes.- Part I: Motivation and Examples.- 2 Making Some Things Precise.- 3 Free Groups.- 4 A Cook's Tour.- Part II: Basic Tools and Concepts.- 5 Ordered Sets, Induction, and the Axiom of Choice.- 6 Lattices, Closure Operators, and Galois Connections.- 7 Categories and Functors.- 8 Universal Constructions.- 9 Varieties of Algebras.- Part III: More on Adjunctions.- 10 Algebras, Coalgebras, and Adjunctions.- References.- List of Exercises.- Symbol Index.- Word and Phrase Index.

Fields of interest
General Algebraic Systems; Category Theory, Homological Algebra; Associative Rings and Algebras

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due November 2014

2nd ed. 2014. LII, 540 p. (Universitext) Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £49.99**
ISBN 978-3-319-11477-4

G. Bini, Università degli Studi di Milano, Milano, Italy; **F. Felici,** Università degli Studi di Roma Tre, Rome, Italy; **M. Melo,** Universidade de Coimbra, Coimbra, Portugal; **F. Viviani,** Università degli Studi di Roma Tre, Rome, Italy

Geometric Invariant Theory for Polarized Curves

We investigate GIT quotients of polarized curves. More specifically, we study the GIT problem for the Hilbert and Chow schemes of curves of degree d and genus g in a projective space of dimension d-g, as d decreases with respect to g.

Features
► An introduction to the techniques of Geometric Invariant Theory via a detailed analysis of the GIT problem for polarized curves ► An introduction to the problem of compactifying moduli spaces through an interpretation of the output of the GIT analysis ► An introduction to the rich theory of compactified Jacobians for singular curves via three explicit examples ► A detailed description of the quotient stacks associated to the different GIT quotients, illustrating the interplay between these two techniques

Contents
Introduction.- Singular Curves.- Combinatorial Results.- Preliminaries on GIT.- Potential Pseudo-stability Theorem.- Stabilizer Subgroups.- Behavior at the Extremes of the Basic Inequality.- A Criterion of Stability for Tails.- Elliptic Tails and Tacnodes with a Line.- A Strati_cation of the Semistable Locus.- Semistable, Polystable and Stable Points (part I).- Stability of Elliptic Tails.- Semistable, Polystable and Stable Points (part II).- Geometric Properties of the GIT Quotient.- Extra Components of the GIT Quotient.- Compacti_cations of the Universal Jacobian.- Appendix: Positivity Properties of Balanced Line Bundles.

Field of interest
Algebraic Geometry

Target groups
Research

Product category
Monograph

Due November 2014

2014. X, 204 p. 17 illus. (Lecture Notes in Mathematics, Volume 2122) Softcover
► ***€ (D) 37,44 | € (A) 38,49 | sFr 47,00**
► **€ 34,99 | £31.99**
ISBN 978-3-319-11336-4

P. Biscari, Politecnico di Milano, Milano, Italy; **T. Ruggeri,** Università degli Studi di Bologna, Bologna, Italy; **G. Saccomandi,** Università degli Studi di Perugia, Perugia, Italy; **M. Vianello,** Politecnico di Milano, Milano, Italy

Meccanica Razionale

Il presente testo è concepito con l'obiettivo di venire incontro all'evoluzione subita dai corsi di Meccanica Razionale, sia in termini di organizzazione che di contenuti. I concetti fondamentali vengono così introdotti a partire da esempi e problemi concreti, anche comuni ad altre discipline, in vista di sinergie didattiche a volte favorite dalla presenza di corsi integrati. Questa impostazione è particolarmente marcata nelle sezioni tradizionalmente caratterizzate da una trattazione forse più astratta: dai vincoli al Principio dei lavori virtuali, dal Principio di d'Alembert alla Meccanica Analitica. Questa Seconda Edizione rinforza consistentemente il numero di esempi ed esercizi svolti.

Features
► Testo particolarmente mirato al corso di studi in Ingegneria ► Raccoglie e sviluppa la tradizione italiana in materia ► Evoluzione di un'opera, a cura degli stessi Autori - diffusa ed apprezzata a livello nazionale

Contents
1 Cinematica del punto.- 2 Cinematica del corpo rigido.- 3 Cinematica relativa.- 4 Sistemi vincolati.- 5 Geometria delle masse.- 6 Forse, lavoro, potenziale.- 7 Leggi della Meccanica.- 8 Statica.- 9 Dinamica del punto materiale.- 10 Dinamica dei sistemi.- 11 Dinamica del corpo rigido.- 12 Meccanica Relativa.- 13 Meccanica Langragiana.- 14 Statica dei continui monodimensionali.- 15 Appendice A.

Fields of interest
Mathematical Physics; Mechanics; Applications of Mathematics

Target groups
Lower undergraduate

Product category
Libro di testo introduttivo

Pubblicazione prevista per il mese di September 2014

2a ed. 2014. XII, 390 pagg. 132 figg. (UNITEXT / La Matematica per il 3+2, Volume 81) Brossura
► ***€ (D) 33,94 | € (A) 34,89 | sFr 42,50**
► **€ 31,72 | £28.99**
ISBN 978-88-470-5725-8

D. Breda, University of Udine, Udine, Italy; **S. Maset,** University of Trieste, Trieste, Italy; **R. Vermiglio,** University of Udine, Udine, Italy

Stability of Linear Delay Differential Equations

A Numerical Approach with MATLAB

This book presents the authors recent work on the numerical methods for the stability analysis of both equilibria and periodic solutions, which consist in applying pseudospectral techniques to discretize either the solution operator or the infinitesimal generator and in using the eigenvalues of the resulting matrices to approximate the exact spectra.

Features
► Provides Matlab codes allowing the interested reader to test and apply the proposed approaches in a practical perspective ► Represents a self-contained treatment of the problem, from the theoretical aspects of the models to the practical computation of the results ► Presents the authors recent work on the numerical methods for the stability analysis of equilibria and periodic solutions

Contents
Introduction.- Part I: Theory.- Notation and basics.- Stability of linear autonomous equations.- Stability of linear periodic equations.- Part II: Numerical Analysis.- The infinitesimal generator approach.- The solution operator approach.- Part III: Implementation and applications.- MATLAB implementation.- Applications.

Fields of interest
Systems Theory, Control; Numerical Analysis; Control

Target groups
Research

Product category
Brief

Due November 2014

2014. X, 150 p. 25 illus., 1 illus. in color. (SpringerBriefs in Electrical and Computer Engineering / SpringerBriefs in Control, Automation and Robotics) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-1-4939-2106-5

R. F. Brown, Santa Monica, CA, USA

A Topological Introduction to Nonlinear Analysis

This third edition is addressed to the mathematician or graduate student of mathematics - or even the well-prepared undergraduate - who would like, with a minimum of background and preparation, to understand some of the beautiful results at the heart of nonlinear analysis.

Features
► 3rd Edition provides new content and expanded coverage of key topics ► New section discusses the fixed point index and its many applications ► Concise presentation and clear exposition make it an ideal resource for classroom use or self study

Contents
Preface.- Part I Fixed Point Existence Theory.- The Topological Point of View.- Ascoli-Arzela Theory.- Brouwer Fixed Point Theory.- Schauder Fixed Point Theory.- The Forced Pendulum.- Equilibrium Heat Distribution.- Generalized Bernstain Theory.- Part II Degree Theory.- Brouwer Degree.- Properties of the Brouwer Degree.- Leray-Schauder Degree.- Properties of the Leray-Schauder Degree.- The Mawhin Operator.- The Pendulum Swings back.- Part III Fixed Point Index Theory.- A Retraction Theorum.- The Fixed Point Index.- The Tubulur Reactor.- Fixed Points in a Cone.- Eigenvalues and Eigenvectors.- Part IV Bifurcation Theory.- A Separation Theorem.- Compact Linear Operators.- The Degree Calculation.- The Krasnoselskii-Rabinowitz Theorem.- Nonlinear Strum Liouville Theory.- More Strum Liouville Theory.- Euler Buckling.- Part V Appendices.

Fields of interest
Functional Analysis; Ordinary Differential Equations; Partial Differential Equations

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due December 2014

3rd ed. 2015. VI, 214 p. 35 illus. Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11793-5

R. Bulajich Manfrino, Universidad Autónoma del Estado de Morelos, Cuernavaca, Mexico; **J. A. Gómez Ortega,** Universidad Nacional Autónoma de Mé de México, México, Mexico; **R. Valdez Delgado,** Universidad Autónoma del Estado de Morelos, Cuernavaca, Mexico

Topics in Algebra and Analysis

Preparing for the Mathematical Olympiad

This book presents useful techniques for solving mathematical Olympiad problems in algebra and analysis. Most of the examples, exercises and problems in the book originate from the mathematical Olympiad contests around the world. The material is divided in ten chapters. The first four chapters are related to basic material that can be used in the first stages of any mathematical contests at high school level. The next four chapters comprise more advanced topics which are required for the international mathematical competitions and can be also useful for students in their first year of university.

Features
► First book on algebra or analysis explaining the theory and including the material used in the mathematical Olympiad ► Presents some interesting ways to tackle known problems ► Elementary treatment of complex numbers ► Key observations regarding the solution of functional equation problems

Contents
1. Preliminaries.- 2 Progressions and finite sums.- 3 Induction principle.- 4 Quadratic and cubic polynomials.- 5 Complex numbers.- 6 Functions and functional equations.- 7 Sequences and series.- 8 Polynomials.- 9 Problems.- 10 Solutions of the exercises and problems.- Notation.- Bibliography.- Index.

Fields of interest
Number Theory; Difference and Functional Equations; Sequences, Series, Summability

Target groups
Lower undergraduate

Product category
Undergraduate textbook

Due March 2015

2015. Approx. 360 p. Softcover
► **approx. *€ (D) 48,14 | € (A) 49,49 | sFr 60,00**
► **approx. € 44,99 | £40.99**
ISBN 978-3-319-11945-8

C. Canuto, Politecnico di Torino, Torino, Italy;
A. Tabacco, Politecnico di Torino Fac. Ingegneria, Torino, Italy

Analisi Matematica I

Teoria ed esercizi

Il presente testo intende essere di supporto ad un primo insegnamento di Matematica in quei corsi di studio (quali ad esempio Ingegneria, Informatica, Fisica) in cui lo strumento matematico parte significativa della formazione dell'allievo. Il testo presenta tre diversi livelli di lettura. Un livello essenziale permette allo studente di cogliere i concetti indispensabili della materia e di familiarizzarsi con le relative tecniche di calcolo. Un livello intermedio fornisce le giustificazioni dei principali risultati e arricchisce lesposizione mediante utili osservazioni e complementi.

Features
► Il volume e un opera di riferimento insostituibile per tutti gli studenti universitari di ingegneria, informatica e fisica che debbano sostenere l'esame di analisi ► La grafica accattivante, a 2 colori, fa di questo testo un punto di riferimento fondamentale per lo studio della disciplina ► Il testo intende essere di supporto ad un primo insegnamento di Analisi Matematica

Contents
1 Nozioni di base.- 2 Funzioni.- 3 Limiti e continuità I.- 4 Limiti e continuità II.- 5 Confronto locale di funzioni. Successioni e serie numeriche.- 6 Calcolo differenziale.- 7 Sviluppi di Taylor e applicazioni.- 8 Rappresentazioni del piano e dello spazio.- 9 Calcolo integrale I.- 10 Calcolo integrale II.- 11 Equazioni differenziali ordinarie.

Fields of interest
Ordinary Differential Equations; Partial Differential Equations; Fourier Analysis

Target groups
Lower undergraduate

Product category
Libro di testo introduttivo

Pubblicazione prevista per il mese di September 2014

4a ed. 2014. XIV, 508 pagg. 150 figg. a colori.
(UNITEXT / La Matematica per il 3+2, Volume 82)
Brossura
► ***€ (D) 30,86 | € (A) 31,72 | sFr 38,50**
► **€ 28,84 | £25.99**
ISBN 978-88-470-5722-7

C. Canuto, Politecnico di Torino, Torino, Italy;
A. Tabacco, Politecnico di Torino Fac. Ingegneria, Torino, Italy

Analisi Matematica II

Teoria ed esercizi

Il presente testo intende essere di supporto ad un secondo insegnamento di Analisi Matematica in quei corsi di studio (quali ad esempio Ingegneria, Informatica, Fisica) in cui lo strumento matematico parte significativa della formazione dell'allievo. I concetti e i metodi fondamentali del calcolo differenziale ed integrale in più variabili, le serie di funzioni e le equazioni differenziali ordinarie sono presentati con l'obiettivo primario di addestrare lo studente ad un loro uso operativo, ma critico. L'impostazione didattica dell'opera ricalca quella usata nel testo parallelo di Analisi Matematica I.

Features
► Il testo intende essere di supporto ad un secondo insegnamento di Analisi Matematica ► La modalità di presentazione degli argomenti permette un uso flessibile e modulare del testo, in modo da rispondere alle diverse possibili scelte didattiche nell'organizzazione di un corso di Analisi Matematica ► Numerosi esempi corredano e illustrano le definizioni e le proprietà di volta in volta enunciate ► Viene fornito un cospicuo numero di esercizi, tutti con la relativa soluzione

Contents
1 Serie numeriche.- 2 Serie di funzioni e di potenze.- 3 Serie di Fourier.- 4 Funzioni tra spazi euclidei.- 5 Calcolo differenziale per funzioni scalari.- 6 Calcolo differenziale per funzioni vettoriali.- 7 Applicazioni del calcolo differenziale.- 8 Calcolo integrale per funzioni in più variabili.- 9 Calcolo integrale su curve e superfici.- 10 Equazioni differenziali ordinarie.

Fields of interest
Ordinary Differential Equations; Partial Differential Equations; Functional Analysis

Target groups
Lower undergraduate

Product category
Libro di testo introduttivo

Pubblicazione prevista per il mese di September 2014

2a ed. 2014. XII, 576 pagg. 150 figg. a colori.
(UNITEXT / La Matematica per il 3+2, Volume 83)
Brossura
► ***€ (D) 31,88 | € (A) 32,78 | sFr 40,00**
► **€ 29,80 | £26.99**
ISBN 978-88-470-5728-9

F. Cardin, Dipartimento di Matematica, Padova, Italy

Elementary Symplectic Topology and Mechanics

This is a short tract on the essentials of differential and symplectic geometry together with a basic introduction to several applications of this rich framework: analytical mechanics, the calculus of variations, conjugate points & Morse index, and other physical topics. A central feature is the systematic utilization of Lagrangian submanifolds and their Maslov-Hörmander generating functions. Following this line of thought, first introduced by Wlodemierz Tulczyjew, geometric solutions of Hamilton-Jacobi equations, Hamiltonian vector fields and canonical transformations are described by suitable Lagrangian submanifolds belonging to distinct well-defined symplectic structures. This unified point of view has been particularly fruitful in symplectic topology, which is the modern Hamiltonian environment for the calculus of variations, yielding sharp sufficient existence conditions. This line of investigation was initiated by Claude Viterbo in 1992; here, some primary consequences of this theory are exposed in Chapter 8: aspects of Poincaré's last geometric theorem and the Arnol'd conjecture are introduced.

Contents
Beginning.- Notes on Differential Geometry.- Symplectic Manifolds.- Poisson brackets environment.- Cauchy Problem for H-J equations.- Calculus of Variations and Conjugate Points.- Asymptotic Theory of Oscillating Integrals.- Lusternik-Schnirelman and Morse.- Finite Exact Reductions.- Other instances.- Bibliography.

Fields of interest
Mathematical Physics; Differential Geometry; Calculus of Variations and Optimal Control; Optimization

Target groups
Research

Product category
Monograph

Due November 2014

2014. Approx. 210 p. (Lecture Notes of the Unione Matematica Italiana, Volume 16) Softcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £35.99**
ISBN 978-3-319-11025-7

A. D. Choudary, Abdus Salam School of Mathematical Sciences, Lahore, Pakistan; **C. P. Niculescu,** University of Craiova, Craiova, Romania

Real Analysis on Intervals

The book targets undergraduate and postgraduate mathematics students and helps them develop a deep understanding of mathematical analysis. Designed as a first course in real analysis, it helps students learn how abstract mathematical analysis solves mathematical problems that relate to the real world. As well as providing a valuable source of inspiration for contemporary research in mathematics, the book helps students read, understand and construct mathematical proofs, develop their problem-solving abilities and comprehend the importance and frontiers of computer facilities and much more.

Features
► Presents theory, methods and basic algorithms of mathematical analysis of one real variable ► Offers short routes to many nowadays mathematical problems ► Makes the reader aware of the fine architecture of mathematics ► Outlines the usefulness of mathematical analysis in performing high precision computations

Contents
Preface.- Chapter 1. The Real Numbers.- Chapter 2. Limits of Real Sequences.- Chapter 3. The Euclidean Spaces RP and C.- Chapter 4. Numerical Series.- Chapter 5. Metric and Topology.- Chapter 6. Continuous Functions.- Chapter 7. Elementary Functions.- Chapter 8. Differential Calculus on R.- Chapter 9. The Riemann Integral.- Chapter 10. Improper Riemann Integrals.- Chapter 11. The Theory of Lebesgue Integral.- Chapter 12. Fourier Series.- Appendices.

Fields of interest
Integral Equations; Integral Transforms, Operational Calculus; Fourier Analysis

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due November 2014

2014. XVI, 485 p. 36 illus. Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-81-322-2147-0

M. Conforti, University of Padova, Padova, Italy; **G. Zambelli,** London School of Economics & Political Science, London, UK; **G. P. Cornuéjols,** Carnegie Mellon University, Pittsburgh, PA, USA

Integer Programming

This book is an elegant and rigorous presentation of integer programming, exposing the subject's mathematical depth and broad applicability. Special attention is given to the theory behind the algorithms used in state-of-the-art solvers. An abundance of concrete examples and exercises of both theoretical and real-world interest explore the wide range of applications and ramifications of the theory. Each chapter is accompanied by an expertly informed guide to the literature and special topics, rounding out the reader's understanding and serving as a gateway to deeper study. Key topics include: formulationspolyhedral theorycutting planesdecompositionenumerationsemidefinite relaxationsWritten by renowned experts in integer programming and combinatorial optimization, Integer Programming is destined to become an essential text in the field.

Features
► Gives a concise yet in-depth treatment of the theory and practice of integer programming ► Provides ample motivation and concrete illustration of theoretical results ► Guides the reader to many special topics in the literature

Contents
Preface.- 1 Getting Started.- 2 Integer Programming Models.- 3 Linear Inequalities and Polyhedra.- 4 Perfect Formulations.- 5 Split and Gomory Inequalities.- 6 Intersection Cuts and Corner Polyhedra.- 7 Valid Inequalities for Structured Integer Programs.- 8 Reformulations and Relaxations.- 9 Enumeration.- 10 Semidefinite Bounds.- Bibliography.- Index.

Fields of interest
Operations Research, Management Science; Convex and Discrete Geometry; Algorithms

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due November 2014

2014. X, 362 p. 69 illus. (Graduate Texts in Mathematics, Volume 271) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11007-3

A. Ducros, Pierre and Marie Curie University, Paris, France; **C. Favre,** Ecole Polytechnique, Palaiseau Cedex, France; **J. Nicaise,** University of Leuven, Heverlee, Belgium (Eds)

Berkovich Spaces and Applications

We present an introduction to Berkovich's theory of non-archimedean analytic spaces that emphasizes its applications in various fields. The first part contains surveys of a foundational nature, including an introduction to Berkovich analytic spaces by M. Temkin, and to étale cohomology by A. Ducros, as well as a short note by C. Favre on the topology of some Berkovich spaces. The second part focuses on applications to geometry. A second text by A. Ducros contains a new proof of the fact that the higher direct images of a coherent sheaf under a proper map are coherent, and B. Rémy, A. Thuillier and A.

Features
► An accessible introduction to the rapidly growing theory of Berkovich analytic spaces ► Presents an original point of view, even on the basics of the theory ► Gives an exposition of the striking applications of Berkovich theory to group theory and dynamics

Contents
Introduction to Berkovich analytic spaces.- Etale cohomology of schemes and analytic spaces.- Countability properties of Berkovich spaces.- Cohomological finiteness of proper morphisms in algebraic geometry: a purely transcendental proof, without projective tools.- Bruhat-Tits buildings and analytic geometry.- Dynamics on Berkovich spaces in low dimensions.- Compactifications of spaces of representations (after Culler, Morgan and Shalen).

Fields of interest
Algebraic Geometry; Dynamical Systems and Ergodic Theory; Topological Groups, Lie Groups

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. XII, 438 p. 16 illus., 6 illus. in color. (Lecture Notes in Mathematics, Volume 2119) Softcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11028-8

A. Favini, Università di Bologna, Bologna, Italy;
G. Fragnelli, R. M. Mininni, Università di Bari, Bari, Italy (Eds)

New Prospects in Direct, Inverse and Control Problems for Evolution Equations

Contents
1 F. Alabau-Boussouira, S. Nicaise and C. Pignotti: Exponential stability of the wave equation with memory and time delay.- 2 Fabio Ancona and Giuseppe Maria Coclite: Existence of global weak solutions to a generalized hyperelastic-rod wave equation with source.- 3 George Avalos and Francesca Bucci: Exponential decay properties of a mathematical model for a certain fluid-structure interaction.- 4 Karine Beauchard and Piermarco Cannarsa: Inverse coefficient problem for Grushin-type parabolic operators.- 5 Mourad Choulli, Kian Yavar and Eric Soccorsi: Determining the scalar potential in a periodic quantum waveguide from the DN map.- 6 Angelo Favini, Alfredo Lorenzi and Hiroki Tanabe: A general approach to identification problems.- 7 Genni Fragnelli, Gabriela Marinoschi, Rosa Maria Mininni and Silvia Romanelli: A control approach for an identification problem associated to a strongly degenerate parabolic system with interior degeneracy.- 8 Jerome A. Goldstein and Junqiang Han: On the Nature of the Instability of Radial Power Equilibria of a Semilinear Parabolic Equation.- 9 Davide Guidetti: Abstract elliptic problems depending on a parameter and parabolic problems with dynamic boundary conditions.- 10 Victor Isakov: Increasing stability of the continuation for general elliptic equations of second order.- 11 Vilmos Komornik and Paola Loreti: Simultaneous observability of plates. [...]

Fields of interest
Partial Differential Equations; Operator Theory; Integral Equations

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. X, 428 p. 12 illus., 1 illus. in color. (Springer INdAM Series, Volume 10) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-3-319-11405-7

S. Forman, A. M. Rash, St. Joseph's University, Philadelphia, PA, USA

The Whole Truth About Whole Numbers

An Elementary Introduction to Number Theory

The Whole Truth About Whole Numbers is an introduction to the field of Number Theory for students in non-math and non-science majors who have studied at least two years of high school algebra. Rather than giving brief introductions to a wide variety of topics, this book provides an in-depth introduction to the field of Number Theory. The topics covered are many of those included in an introductory Number Theory course for mathematics majors, but the presentation is carefully tailored to meet the needs of elementary education, liberal arts, and other non-mathematical majors.

Features
► Introduction to Number Theory for non-math and non-science majors ► Very accessible to liberal arts students with many relevant proof-solving techniques and exercises ► Includes standard topics in a first Number Theory course as well as applications to identification numbers and cryptography

Contents
Introduction.- Conjectures, Proofs and Counter-examples.- Pythagorean Triples.- Prime Numbers.- The Division Algorithm and the Euclidean Algorithm.- Congruences.- Numerical Functions and Special Congruences.- Cryptography.

Fields of interest
Number Theory; Numerical Analysis; Mathematics, general

Target groups
Lower undergraduate

Product category
Undergraduate textbook

Due November 2014

2014. IX, 257 p. 13 illus., 8 illus. in color. Hardcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £35.99**
ISBN 978-3-319-11034-9

P. M. Gauthier, Université de Montréal, Montreal, QC, Canada

Lectures on Several Complex Variables

This monograph provides a concise, accessible snapshot of key topics in several complex variables, including the Cauchy Integral Formula, sequences of holomorphic functions, plurisubharmonic functions, the Dirichlet problem, and meromorphic functions. Based on a course given at Université de Montréal, this brief introduction covers areas of contemporary importance that are not mentioned in most treatments of the subject, such as modular forms, which are essential for Wiles' theorem and the unification of quantum theory and general relativity.

Features
► Provides a concise, accessible guide to several complex variables suitable for both advanced undergraduate and beginning graduate students ► Covers contemporary topics, such as modular forms and the Riemann manifold of a function, that are not covered in other books on several complex variables ► Many details are intentionally left out and many theorems are stated as problems, providing instructive exercises for students

Contents
Preface.- Introduction.- Basics.- Cauchy Integral Formula.- Sequences of Holomorphic Functions.- Series.- Zero Sets of Holomorphic Functions.- Holomorphic Mappings.- Plurisubharmonic Functions.- The Dirichlet Problem.- Uniform Approximation.- Complex Manifolds.- Examples of Manifolds.- Holomorphic Continuation.- The Tangent Space.- Meromorphic Functions and Subvarieties.

Fields of interest
Several Complex Variables and Analytic Spaces; Functions of a Complex Variable

Target groups
Research

Product category
Monograph

Due November 2014

2014. V, 115 p. Softcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11510-8

M. Gil', Ben Gurion University of the Negev, Beer Sheva, Israel

Stability of Neutral Functional Differential Equations

In this monograph the author presents explicit conditions for the exponential, absolute and input-to-state stabilities including solution estimates of certain types of functional differential equations. The main methodology used is based on a combination of recent norm estimates for matrix-valued functions, comprising the generalized Bohl-Perron principle, together with its integral version and the positivity of fundamental solutions. A significant part of the book is especially devoted to the solution of the generalized Aizerman problem.

Features
► Gives an approach based on estimates for matrix-valued functions which allows the investigation of various classes of equations from a unified viewpoint ► Provides the reader with a solution of the generalized Aizerman problem for NDEs ► Explains to the reader the generalized Bohl-Perron principle for neutral type systems and its integral version ► Gives explicit stability conditions for semilinear equations with linear neutral type parts and nonlinear causal mappings

Contents
Preliminaries.- Eigenvalues and Functions of Matrices.- Difference Equations with Continuous Time.- Linear Differential Delay Equations.- Linear Autonomous NDEs.- Linear Time-variant NDEs.- Nonlinear Vector NDEs.- Absolute Stability of Scalar NDEs.- Bounds for Characteristic Values of NDEs.

Fields of interest
Difference and Functional Equations; Systems Theory, Control; Linear and Multilinear Algebras, Matrix Theory

Target groups
Research

Product category
Monograph

M. Golasinski, Casimir the Great University, Bydgoszcz, Poland; **J. Mukai,** Shinshu University, Matsumoto, Japan

Gottlieb and Whitehead Center Groups of Spheres, Projective and Moore Spaces

This is a monograph that details the use of Siegel's method and the classical results of homotopy groups of spheres and Lie groups to determine some Gottlieb groups of projective spaces or to give the lower bounds of their orders. Making use of the properties of Whitehead products, the authors also determine some Whitehead center groups of projective spaces that are relevant and new within this monograph.

Features
► Presents a systematic study of Gottlieb Groups of Spheres ► Uses classical methods of homotopy theory and Lie groups to develop new theories on Gottlieb Projective Spaces ► Contains a number of nontrivial results in classical homotopy theory useful for people working not only in algebraic topology but in other areas of mathematics as well

Contents
Introduction.- Gottlieb groups of Spheres.- Gottlieb and Whitehead Center Groups of Projective Spaces.- Gottlieb and Whitehead Center Groups of Moore Spaces.

Fields of interest
Convex and Discrete Geometry; Differential Geometry; Category Theory, Homological Algebra

Target groups
Research

Product category
Monograph

I. Gyöngy, University of Edinburgh College of Science & Engineering, Edinburgh, UK

Introduction to Stochastic Partial Differential Equations

The L_2-theory of parabolic SPDEs is presented in this book. The development of the theory of SPDEs is motivated by problems arising in practice surrounding the numerical calculations of nonlinear filters for partially observed diffusion processes. To address these questions, the dependence of SPDEs on the driving semimartingales is investigated and new results on their numerical approximations are also given. In contrast to previous expositions, SPDEs driven by random measures and discontinuous semimartingales are also considered, and the theory of SPDEs driven by Levy processes are included as special cases. The author introduces a more general theory of SPDEs developing the theory of stochastic evolution equations in Banach spaces. He presents applications to large classes of linear and nonlinear SPDEs and , in particular, he developes a theory of SPDEs with unbounded coefficients in weighted Sobolev spaces. In this unique book regularity properties of the solutions are obtained via new results on dependence of the solutions on parameters, and existence and uniqueness theorems for parabolic SPDEs on smooth domains of R^d are proven.

Features
► For the first time, SPDEs driven by random measures and discontinuous semimartingales are considered in this book ► More accessible for beginners, since the main existence and uniqueness results are obtained by elementary methods ► Exercises and applications are also given

Fields of interest
Probability Theory and Stochastic Processes; Partial Differential Equations

Target groups
Research

Product category
Graduate/Advanced undergraduate textbook

ATLANTIS PRESS

Due November 2014

2015. XII, 263 p. (Atlantis Studies in Differential Equations, Volume 3) Hardcover
► ***€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **€ 84,99 | £76.50**
ISBN 978-94-6239-090-4

Due November 2014

2014. VIII, 130 p. Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11516-0

Due February 2015

2015. X, 340 p. (Stochastic Modelling and Applied Probability, Volume 65) Hardcover
► **approx. *€ (D) 64,15 | € (A) 65,95 | sFr 86,00**
► **approx. € 59,95 | £53.99**
ISBN 978-3-642-16535-1

A. Ilchmann, Technische Universität Ilmenau Institut für Mathematik, Ilmenau, Germany; **T. Reis,** Universität Hamburg Fachbereich Mathematik, Hamburg, Germany (Eds)

Surveys in Differential-Algebraic Equations II

The present volume comprises survey articles on various fields of Differential-Algebraic Equations (DAEs), which have widespread applications in controlled dynamical systems, especially in mechanical and electrical engineering and a strong relation to (ordinary) differential equations.

Features
► A collection of survey articles, covering a broad spectrum of areas related to DAEs, each of which presented in an individual chapter ► Unique in the sense that other books provide rather an introduction to the principles of DAEs ► Suitable not only for graduate students for self-study but also for active researchers by dealing with specific aspects of particular fields of DAEs

Contents
Linear Differential Algebraic Equations and Observers.- DAEs in Model Reduction of Chemical Processes.- A Survey on Optimal Control Problems with Differential-Algebraic Equations.- Differential-Algebraic Equations from a Functional-Analytic Viewpoint.- Algebraic Theory of Linear Systems.

Fields of interest
Ordinary Differential Equations; Numerical Analysis; Systems Theory, Control

Target groups
Research

Product category
Contributed volume

Due December 2014

2015. VIII, 322 p. (Differential-Algebraic Equations Forum) Softcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-3-319-11049-3

S. Joshi, Walchand College of Engineering, Sangli, India; **M. Dorff,** Brigham Young University, Provo, UT, USA; **I. Lahiri,** University of Kalyani, Kalyani, India (Eds)

Current Topics in Pure and Computational Complex Analysis

Contents
Chapter 1. Boundary Behavior of Univalent Harmonic Mappings: A Survey of Recent Boundary Behavior Results of Univalent Harmonic Mappings.- Chapter 2. Harmonic Univalent Mappings and Minimal Graphs.- Chapter 3. Minimal Surfaces over the Slanted Half Planes, Vertical Strips and Single Slit.- Chapter 4. A Survey on Special Classes of Bazilevic Functions and Related Function Classes.- Chapter 5. Uniqueness of Entire Functions Sharing Certain Values with Derivatives.- Chapter 6. Differential Superordinations and Sandwich-Type Results.- Chapter 7. Starlikeness and Convexity of Certain Integral Transforms by using Duality Technique.- Chapter 8. Enestrom–Kakeya Theorem and Some of Its Generalizations.- Chapter 9. Starlikeness, Convexity and Close-to-Convexity of Harmonic Mappings.- Chapter 10. On Generalized p-Valent Non-Bazilevic Type Functions.- Chapter 11. Integral Mean Estimates for a Polynomial with Restricted Zeros.- Chapter 12. Uniqueness Results for Meromorphic Functions Concerning Small Functions.- Chapter 13. Maxima Polynomial Ranges for a Domain of Intersection of Two Circular Disks.

Fields of interest
Complex Systems; Several Complex Variables and Analytic Spaces; Approximations and Expansions

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. I, 263 p. 25 illus., 20 illus. in color. (Trends in Mathematics) Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-81-322-2112-8

W. Kirk, University of Iowa, Iowa City, IA, USA; **N. Shahzad,** King Abdulaziz University, Jeddah, Saudi Arabia

Fixed Point Theory in Distance Spaces

This is a monograph on fixed point theory, covering the purely metric aspects of the theory–particularly results that do not depend on any algebraic structure of the underlying space. Traditionally, a large body of metric fixed point theory has been couched in a functional analytic framework. This aspect of the theory has been written about extensively.

Features
► Covers four classical fixed point theorems against which metric extensions are usually checked and several new modern theorems on fixed point theory and distances. ► Presents a concise accessible document which can be used as an introduction to the subject and its central themes, featuring material collected in a single volume for the first time. ► Introduces concepts addressing both mathematical and applied problems, including more formal concepts which have yet to find formal application.

Contents
Preface.- Part 1. Metric Spaces.- Introduction.- Caristi's Theorem and Extensions.- Nonexpansive Mappings and Zermelo's Theorem.- Hyperconvex metric spaces.- Ultrametric spaces.- Part 2. Length Spaces and Geodesic Spaces.- Busemann spaces and hyperbolic spaces.- Length spaces and local contractions.- The G-spaces of Busemann.- CAT(0) Spaces.- Ptolemaic Spaces.- R-trees (metric trees).- Part 3. Beyond Metric Spaces.- b-Metric Spaces.- Generalized Metric Spaces.- Partial Metric Spaces.- Diversities.- Bibliography.- Index.

Fields of interest
Differential Geometry; Topology; Mathematical Modeling and Industrial Mathematics

Target groups
Research

Product category
Monograph

Due October 2014

2014. X, 136 p. Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-10926-8

A. Kirsch, Karlsruhe Institute of Technology (KIT) Department of Mathematics, Karlsruhe, Germany; **F. Hettlich,** Universität Karlsruhe Mathematisches Institut II, karlsruhe, Germany

The Mathematical Theory of Time-Harmonic Maxwell's Equations

Expansion-, Integral-, and Variational Methods

This book gives a concise introduction to the basic techniques needed for the theoretical analysis of the Maxwell Equations, and filters in an elegant way the essential parts, e.g., concerning the various function spaces needed to rigorously investigate the boundary integral equations and variational equations.

Features
► Written by well known international researchers based on their lectures between 2007 and 2013 ► Accessible to broad audience with examples and exercises throughout ► Topics are first approached with simpler scalar Helmholtz equations before turning to Maxwell equations ► Appendix material includes results from functional analysis, vector calculus, and differential geometry

Contents
Introduction.- Expansion into Wave Functions.- Scattering From a Perfect Conductor.- The Variational Approach to the Cavity Problem.- Boundary Integral Equation Methods for Lipschitz Domains.- Appendix.- References.- Index.

Fields of interest
Partial Differential Equations; Functional Analysis; Appl.Mathematics/Computational Methods of Engineering

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Q. Kong, Northern Illinois University, DeKalb, IL, USA

A Short Course in Ordinary Differential Equations

This text is a rigorous treatment of the basic qualitative theory of ordinary differential equations, at the beginning graduate level. Designed as a flexible one-semester course but offering enough material for two semesters, A Short Course covers core topics such as initial value problems, linear differential equations, Lyapunov stability, dynamical systems and the Poincaré—Bendixson theorem, and bifurcation theory, and second-order topics including oscillation theory, boundary value problems, and Sturm—Liouville problems.

Features
► Focuses on the theoretical aspect of ODEs without emphasis on lengthy technical applications of special equations from physics and engineering ► Uses carefully selected and organized material to cover all significant text with analytic, easily comprehensible explanations ► Simplifies and/or modifies many statements and proofs of theorems and introduces symbolic abbreviations for frequently used concepts and terms ► Gives hints for proof-oriented exercises and answers to computational exercises

Contents
Preface.- Notation and Abbreviations.- 1. Initial Value Problems.- 2. Linear Differential Equations.- 3. Lyapunov Stability Theory.- 4. Dynamic Systems and Planar Autonomous Equations.- 5. Introduction to Bifurcation Theory.- 6. Second-Order Linear Equations.- Answers and Hints.- Bibliography.- Index.

Fields of interest
Ordinary Differential Equations; Dynamical Systems and Ergodic Theory

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

O. E. Lanford III, M. Yampolsky, University of Toronto, Department of Mathematics, Toronto, ON, Canada

Fixed Point of the Parabolic Renormalization Operator

This monograph grew out of the authors' efforts to provide a natural geometric description for the class of maps invariant under parabolic renormalization and for the Inou-Shishikura fixed point itself as well as to carry out a computer-assisted study of the parabolic renormalization operator. It introduces a renormalization-invariant class of analytic maps with a maximal domain of analyticity and rigid covering properties and presents a numerical scheme for computing parabolic renormalization of a germ, which is used to compute the Inou-Shishikura renormalization fixed point. Inside, readers will find a detailed introduction into the theory of parabolic bifurcation, Fatou coordinates, Écalle-Voronin conjugacy invariants of parabolic germs, and the definition and basic properties of parabolic renormalization.

Features
► The first detailed introduction into one of the cutting-edge subjects of modern Complex Dynamics ► A new numerical approach to computing Fatou coordinates of a parabolic germ ► Text illustrated with many detailed computer-generated images

Contents
1 Introduction.- 2 Local dynamics of a parabolic germ.- 3 Global theory.- 4 Numerical results.- 5 For dessert: several amusing examples.- Index.

Fields of interest
Dynamical Systems and Ergodic Theory; Functions of a Complex Variable; Numerical Analysis

Target groups
Research

Product category
Brief

Due November 2014

2014. XIII, 333 p. 3 illus., 1 illus. in color. (Applied Mathematical Sciences, Volume 190) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11085-1

Due November 2014

2014. X, 235 p. 55 illus. (Universitext) Hardcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £29.99**
ISBN 978-3-319-11238-1

Due December 2014

2015. Approx. 105 p. 15 illus., 10 illus. in color. (SpringerBriefs in Mathematics) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-11706-5

C. Lopez

Dynamic Econometrics Models with SAS, Stata, and EViews

Dynamic Econometrics Models with SAS, Stata, and EViews covers a wide typology of dynamic econometrics models, including models with distributed delays, models with stochastic regressors, models with structural change, and dynamic panel data models. You'll discover core information and solutions around the theory of unit roots, co-integration, and error correction models. This book offers you from a practical, hands-on treatment of these models from multiple perspectives, so you'll find examples and solutions using SAS, Stat and EViews - the major solutions on the market to solve these non-trivial econometric tasks. You'll begin by learning about Dynamic Models such as those with delays in exogenous variables, and those with delays in the endogenous variable, and each of these simultaneously. Special types of Dynamic econometric models are also explored, including finite distributed delays, and infinite distributed delays. In particular, you'll work with EViews to explore these initial dynamic econometric models. Then stable econometric models are considered and those with structural change, including time constant parameters, and you'll examine the Chow prediction test, recursive models, and CUSUM and CUSUMQ tests. Once you've explored stable models, you'll learn more about unstable models, including spurious regressions, stationary time series, seasonality detection, and unit roots test, including the Dickey-Fuller Unit Roots Tests, and the Phillips-Perron Unit Roots Test. Error correction models (ECM), Unit roots and co-integration in seasonal series are explored with both EViews and Stata, following practical examples and exercises. In the final section of this book, panel data models are considered, with constant coeffecients, and fixed effects.

Field of interest
Mathematical Software

Target groups
Popular/general

Product category
Professional book

C. Lopez

MATLAB Matrix Algebra

Contents
1. Introducing MATLAB for Matrix and Vector Variables.- 2. MATLAB and Matrix Algebra.- 3. Sequences, Arrays, Tables, Lists and Sets.- 4. Vector Spaces and Linear Applications with MATLAB.- 5. MATLAB for Vector and Matrix Functions of Complex Variables

Field of interest
Mathematical Software

Target groups
Popular/general

Product category
Professional book

C. Lopez

MATLAB Optimization Techniques

MATLAB is a high-level language and environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages, such as C/C++ or Java. MATLAB Optimization Techniques introduces you to MATLAB and its Optimization Toolbox, which contains the current state of the art in optimization algorithms. The main algorithms for minimizing non-limited are the BFGS method quasi-Newton and direct research Nelder-Mead with linear research method. Quadratic programming (SQP) sequence variations are used for minimization with boundaries, achievement of objectives, and semi-infinite optimizations. Non-linear least-squares problems are solved using the methods of Guass-Newton or Levenberg-Marquardt. With practical, hands-on examples, you'll learn about highly-optimized algorithms to solve linear programming problems, non-linear least square with limits, non-linear unconstrained minimization, non-linear minimization constrained limits, non-linear minimization with linear equalities, non-linear system solving equations, quadratic minimization with limits restrictions, quadratic minimization with linear equalities, and limits-constrained linear least squares. You'll also find optimized methods for formulations of quadratic programming and non-linear objectives, with linear equality constraints or limits restrictions.

Field of interest
Mathematical Software

Target groups
Popular/general

Product category
Professional book

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C. Lopez

Multiple Equation Econometrics Models

Contents
1. Multiple Equation Models.- 2. Simultaneous Equations.- 3. Multivariate Time Series Models.- 4. Non-Linear Models.- 5. Partitioned and Segmented Regression

Field of interestt
Mathematical Software

Target groups
Popular/general

Product category
Professional book

M. A. Méndez, IVIC, San Antonio de Los Altos, Venezuela

Set Operads and Decomposition Theory

In Computer Science and Combinatorics

This monograph has two main objectives. The first one is to give a self-contained exposition of the relevant facts about set operads, in the context of combinatorial species and its operations. This approach has various advantages: one of them is that the definition of combinatorial operations on species, product, sum, substitution and derivative, are simple and natural. They were designed as the set theoretical counterparts of the homonym operations on exponential generating functions, giving an immediate insight on the combinatorial meaning of them. The second objective is more ambitious. Before formulating it, authors present a brief historic account on the sources of decomposition theory.

Features
► Gives a detailed elementary introduction to set operads from the point of view of species, the advantages of this approach are explained in the abstract ► Settles decomposition theory in to the area of domain of a very general and powerful machinery: set operads and operads in general ► Would be of the interest to computer scientists as well as to the operadic community

Contents
Abstract.- Preliminaries on species and set operads.- Operations on species, and set operads.- Decomposition Theory.-Rigid Operads.- posets from c-operads and Koszul duality.- Glossary.- Solutions.-

Fields of interest
Special Functions; Complex Systems; Operator Theory

Target groups
Research

Product category
Brief

R. O'Malley, University of Washington, Seattle, WA, USA

Historical Developments in Singular Perturbations

This engaging text describes the development of singular perturbations, including its history, accumulating literature, and its current status. While the approach of the text is sophisticated, the literature is accessible to a broad audience. A particularly valuable bonus are the historical remarks. These remarks are found throughout the manuscript. They demonstrate the growth of mathematical thinking on this topic by engineers and mathematicians. The book focuses on detailing how the various methods are to be applied. These are illustrated by a number and variety of examples. Readers are expected to have a working knowledge of elementary ordinary differential equations, including some familiarity with power series techniques, and of some advanced calculus. Dr. O'Malley has written a number of books on singular perturbations.

Features
► Overview of 100 year history and development of singular perturbations ► Written by top international researchers ► Gives key research developments in singular perturbations ► Contains many examples and applications

Contents
Preface.- Ludwig Prandtl's Boundary Layer Theory.- Asymptotic Approximations.- The Method of Matches Asymptotic Expansions and Its Generalizations.- Wendepunkts and Canards (Turning Points and Delayed Bifurcations).- Two-timing, Geometric, and Multi-scale Methods.- A Simple Multi-scale Procedure for Both Oscillatory and Boundary Layer Problems.- References.- Index.

Fields of interest
Ordinary Differential Equations; History of Mathematical Sciences

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

apress®

Due October 2014

2015. 160 p. Softcover
► ***€ (D) 32,05 | € (A) 32,94 | sFr 40,00**
► **€ 29,95 | £23.50**
ISBN 978-1-4842-0320-0

Due November 2014

2014. X, 134 p. (SpringerBriefs in Mathematics)
Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11712-6

Due November 2014

2014. VI, 246 p. 17 illus. Hardcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11923-6

F. Rahaman, Jadavpur University, Kolkata, India

The Special Theory of Relativity

A Mathematical Approach

The book expounds the major topics in the special theory of relativity. It provides a detailed examination of the mathematical foundation of the special theory of relativity, relativistic mass, relativistic mechanics and relativistic electrodynamics.

Features
► Offers graduate students a clear, concise view of the special theory of relativity ► Provides a detailed examination of the mathematical foundation of the special theory of relativity, relativistic mass, relativistic mechanics and relativistic electrodynamics ► Discusses the relativistic effect on photons, covariant formulation of relativistic mechanics and electrodynamics ► Provides numerous worked examples with every concept to aid better understanding of the subject

Contents
Chapter 1. Pre-Relativity and Galilean Transformation.- Chapter 2. Michelson-Morley Experiment and Velocity of Light.- Chapter 3. Lorentz Transformations.- Chapter 4. Mathematical Properties of Lorentz Transformations.- Chapter 5. More Mathematical Properties of Lorentz Transformations.- Chapter 6. Geometric Interpretation of Spacetime.- Chapter 7. Relativistic Velocity and Acceleration.- Chapter 8. Four Dimensional World.- Chapter 9. Mass in Relativity.- Chapter 10. Relativistic Dynamics.- Chapter 11. Photon in Relativity.- Chapter 12. Relativistic Lagrangian and Hamiltonian.- Chapter 13. Electrodynamics in Relativity.- Chapter 14. Relativistic Mechanics of continua.

Fields of interest
Mathematical Physics; Mathematical Applications in the Physical Sciences; Projective Geometry

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

2014. XIV, 249 p. 41 illus. Hardcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-81-322-2079-4

R. Sinha, Magadh University, Bodh Gaya, India

Smooth Manifolds

This book offers an introduction to the theory of smooth manifolds, helping students to familiarize themselves with the tools they will need for mathematical research on smooth manifolds and differential geometry. The book primarily focuses on topics concerning differential manifolds, tangent spaces, multivariable differential calculus, topological properties of smooth manifolds, embedded submanifolds, Sard's theorem and Whitney embedding theorem. It is clearly structured, amply illustrated and includes solved examples for all concepts discussed. Several difficult theorems have been broken into many lemmas and notes (equivalent to sub-lemmas) to enhance the readability of the book. Further, once a concept has been introduced, it reoccurs throughout the book to ensure comprehension. Rank theorem, a vital aspect of smooth manifolds theory, occurs in many manifestations, including rank theorem for Euclidean space and global rank theorem.

Features
► Presents detailed proofs of important theorems ► Supplies solved examples for each concept discussed ► Discusses all major topics on smooth manifolds ► Proves Sard's theorem, for the first time, in case n = 1 ► Will be useful for graduate students as well as researchers

Contents
Chapter 1. Differentiable Manifolds.- Chapter 2. Tangent Spaces.- Chapter 3. Multivariable Differential Calculus.- Chapter 4. Topological Properties of Smooth Manifolds.- Chapter 5. Immersions, Submersions, and Embeddings.- Chapter 6. Sard's Theorem.- Chapter 7. Whitney Embedding Theorem.- Bibliography.

Fields of interest
Differential Geometry; Classical and Quantum Gravitation, Relativity Theory; Global Analysis and Analysis on Manifolds

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

2014. IX, 449 p. 10 illus. Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-81-322-2103-6

R. G. Almond, Florida State University, Tallahassee, FL, USA; **R. J. Mislevy,** Educational Testing Service, Princeton, NJ, USA; **L. Steinberg,** Pennington, NJ, USA; **D. Yan, D. Williamson,** Educational Testing Service, Princeton, NJ, USA

Bayesian Networks in Educational Assessment

Bayesian inference networks, a synthesis of statistics and expert systems, have advanced reasoning under uncertainty in medicine, business, and social sciences.

Features
► Features exercises to make the material concrete ► ECD portions of the book (Ch. 2, 12 & 13) build on work that was basis for the 2000 NCME award for Outstanding Technical Contribution to Educational Measurement received by the authors ► Includes basic review of Bayesian probability and statistics and an introduction to Evidence-Centered Design

Contents
Introduction.- A philosophy of assessment design.- Bayesian probability and statistics: a review.- Basic graph theory and graphical models.- Efficient calculations.- Some illustrative examples.- Explanation and test selection.- Parameters for graphical models.- Learning in models with fixed structure.- Critiquing and learning models.- An example of learning.- The conceptual assessment framework.- The evidence accumulation process.- Biomass: an assessment of science standards.- The future of graphical models in educational assessment.

Fields of interest
Statistics for Social Science, Behavorial Science, Education, Public Policy, and Law; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

N. Balakrishnan, McMaster University, Hamilton, ON, Canada; **E. Cramer,** RWTH Aachen University, Aachen, Germany

The Art of Progressive Censoring

Applications to Reliability and Quality

Contents
Part I: Distribution Theory and Models.- Progressive censoring: Data and models.- Progressive Type-II censoring: Distribution theory.- Further distributional results on progressive Type-II censoring.- Progressive Type-I censoring: Basic properties.- Progressive hybrid censoring: Distributions and properties.- Adaptive progressive Type-II censoring and related models.- Moments of progressively Type-II censored order statistics.- Simulation of progressively censored order statistics.- Information Measures.- Progressive Type-II censoring under non-standard conditions.- Part II: Interence.- Linear estimation in progressive Type-II censoring.- Maximum likelihood estimation in progressive Type-II censoring.- Point estimation in progressive Type-I censoring.- Progressive hybrid and adaptive censoring and related inference.- Bayesian inference for progressively Type-II censored data.- Point prediction from progressively Type-II censored samples.- Statistical intervals for progressively Type-II censored data.- Progressive Type-I interval censored data.- Goodness-of-fit-tests in progressive Type-II censoring.- Counting and quantile processes and progressive censoring.- Nonparametric inferential issues in progressive Type-II censoring.- Part III: Applications in Survival Analysis and Reliability.- Acceptance sampling plans.- Accelerated life-testing. [...]

Fields of interest
Statistical Theory and Methods; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences; Statistics for Life Sciences, Medicine, Health Sciences

Target groups
Research

Product category
Monograph

J. D. Brown, University of Washington, Seattle, WA, USA

Linear Models in Matrix Form

A Hands-On Approach for the Behavioral Sciences

This textbook is an approachable introduction to statistical analysis using matrix algebra. Prior knowledge of matrix algebra is not necessary. Advanced topics are easy to follow through analyses that were performed on an open-source spreadsheet using a few built-in functions. These topics include ordinary linear regression, as well as maximum likelihood estimation, matrix decompositions, nonparametric smoothers and penalized cubic splines. Data sets contain a purposefully limited number of observations so as not to overwhelm readers and encourage them to do the calculations themselves.

Features
► Comprehensively covers use of linear models in matrix form ► Utilizes R and open source spreadsheets as standard tools for algebraic calculations ► Many examples and full-color screenshots data files to help readers work through the exercises ► East chapter contains useful summary and R code

Contents
Matrix Properties and Operations.- Simple Linear Regression.- Maximum Likelihood Estimation.- Multiple Regression.- Matrix Decompositions.- Problematic Observations.- Errors and Residuals.- Linearizing Transformations and Nonparametric Smoothers.- Cross-Product Terms and Interactions.- Polynomial Regression.- Categorical Predictors.- Factorial Designs.- Analysis of Covariance.- Moderation.- Mediation.

Fields of interest
Statistics for Social Science, Behavorial Science, Education, Public Policy, and Law; Psychometrics; Statistical Theory and Methods

Target groups
Upper undergraduate

Product category
Undergraduate textbook

Due December 2014

2014. X, 540 p. 80 illus., 20 illus. in color. (Statistics for Social and Behavioral Sciences) Hardcover
► **approx. *€ (D) 117,69 | € (A) 120,99 | sFr 147,00**
► **approx. € 109,99 | £99.50**
ISBN 978-1-4939-2124-9

Available

2014. XXI, 645 p. 47 illus., 4 illus. in color. (Statistics for Industry and Technology) Hardcover
► ***€ (D) 117,69 | € (A) 120,99 | sFr 115,00**
► **€ 109,99 | £56.99**
ISBN 978-0-8176-4806-0

Due October 2014

2014. XII, 280 p. 66 illus., 21 illus. in color. Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11733-1

J. Franke, TU Kaiserslautern FB Mathematik, Kaiserslautern, Germany; **W. K. Härdle,** Berlin, Germany; **C. M. Hafner,** Université Catholique de Louvain Inst. Statistique, Leuven-la-Neuve, Belgium

Statistics of Financial Markets

An Introduction

Contents
Part I Option Pricing: Derivatives.- Introduction to Option Management.- Basic Concepts of Probability Theory.- Stochastic Processes in Discrete Time.- Stochastic Integrals and Differential Equations.- Black–Scholes Option Pricing Model.- Binomial Model for European Options.- American Options.- Exotic Options.- Interest Rates and Interest Rate Derivatives.- Part II Statistical Models of Financial Time Series: Introduction – Definitions and Concepts.- ARIMA Time Series Models.- Time Series with Stochastic Volatility.- Long Memory Time Series.- Non-Parametric and Flexible Time Series Estimators.- Part III Selected Financial Applications: Copulae and Value at Risk.- Statistics of Extreme Risks.- Neural Networks.- Volatility Risk of Option Portfolios.- Nonparametric Estimators for the Probability of Default.- Credit Risk Management and Credit Derivatives.- Appendix: Integration Theory.- Portfolio Strategies.

Fields of interest
Statistics for Business/Economics/Mathematical Finance/Insurance; Quantitative Finance; Finance/Investment/Banking

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due February 2015

4th ed. 2015. Approx. 600 p. (Universitext) Softcover
► **approx. *€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **approx. € 69,99 | £49.99**
ISBN 978-3-642-54538-2

R. M. Heiberger, B. Holland, Temple University, Philadelphia, PA, USA

Statistical Analysis and Data Display

An Intermediate Course with Examples in R

This contemporary presentation of statistical methods features extensive use of graphical displays for exploring data and for displaying the analysis. The authors demonstrate how to analyze data—showing code, graphics, and accompanying computer listings—for all the methods they cover.

Features
► New edition features color throughout, reworking of the material to emphasize R (but also utilize SAS), and new material ► New chapters include Ch. 19 on Likert Scale Data to pick up on the importance of rating scales in fields from population studies to phsychometrics and Ch. 20 on Medical, Pharmaceutical and Social Science Examples ► Unique features: chapters introducing the statistics and probability methods used, R package-specific appendices, exercises, code for the graphics used throughout the book, and the ability for readers to also use SAS code

Contents
Introduction.- Data and Statistics.- Statistics Concepts.- Graphs.- Introductory Inference.- One-Way Analysis of Variance.- Multiple Comparisons.- Linear Regression by Least Squares.- Multiple Regression.- Two-Way Analysis of Variance.

Fields of interest
Statistical Theory and Methods; Statistics and Computing/Statistics Programs; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

Due February 2015

2nd ed. 2015. X, 710 p. 150 illus., 50 illus. in color. (Springer Texts in Statistics) Hardcover
► **approx. *€ (D) 64,19 | € (A) 65,99 | sFr 79,00**
► **approx. € 59,99 | £53.99**
ISBN 978-1-4939-2121-8

A. M. Paganoni, P. Secchi, Politecnico di Milano, Milano, Italy (Eds)

Advances in Complex Data Modeling and Computational Methods in Statistics

Contents
1 Antonino Abbruzzo, Angelo M. Mineo: Inferring networks from high-dimensional data with mixed variables.- 2 Federico Andreis, Fulvia Mecatti: Rounding Non-integer Weights in Bootstrapping Non-iid Samples: actual problem or harmless practice?.- 3 Marika Arena, Giovanni Azzone, Antonio Conte, Piercesare Secchi, Simone Vantini: Measuring downsize reputational risk in the Oil & Gas industry.- 4 Laura Azzimonti, Marzia A. Cremona, Andrea Ghiglietti, Francesca Ieva, Alessandra Menafoglio, Alessia Pini, Paolo Zanini: BARCAMP Technology Foresight and Statistics for the Future.- 5 Francesca Chiaromonte, Kateryna D. Makova: Using statistics to shed light on the dynamics of the human genome: A review.- 6 Nader Ebrahimi, Ehsan S. Soofi and Refik Soyer: Information Theory and Bayesian Reliability Analysis: Recent Advances.- 7 Stephan F. Huckemann: (Semi-) Intrinsic Statistical Analysis on non-Euclidean Spaces.- 8 John T. Kent: An investigation of projective shape space.- 9 Fabio Manfredini, Paola Pucci, Piercesare Secchi, Paolo Tagliolato, Simone Vantini, Valeria Vitelli: Treelet Decomposition of Mobile Phone Data for Deriving City Usage and Mobility Pattern in the Milan Urban Region.- 10 Cristina Mazzali, Mauro Maistriello, Francesca Ieva, Pietro Barbieri: Methodological issues in the use of administrative databases to study heart failure.- 11 Andrea Mercatant: Bayesian inference for randomized experiments with noncompliance and nonignorable missing data. [...]

Fields of interest
Statistical Theory and Methods; Applications of Mathematics; Biostatistics

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. X, 212 p. 41 illus., 27 illus. in color. (Contributions to Statistics) Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11148-3

B. C. Sutradhar, Memorial University of Newfoundland, St. John's, NL, Canada

Longitudinal Categorical Data Analysis

This is the first book in longitudinal categorical data analysis with parametric correlation models developed based on dynamic relationships among repeated categorical responses. This book is a natural generalization of the longitudinal binary data analysis to the multinomial data setup with more than two categories. Thus, unlike the existing books on cross-sectional categorical data analysis using log linear models, this book uses multinomial probability models both in cross-sectional and longitudinal setups.

Features
► Provides a comprehensive approach to analysing longitudinal data, with real life examples from the social sciences and medicine ► Covers univariate, bi-variate, and multivariate models for categorical analysis of longitudinal data ► Primary audience is researchers and graduate students in statistics and social sciences or applied statistics research areas, but chapters 1-3 could also be used in advanced undergraduate courses

Contents
Introduction.- Overview of Regression Models for Cross-sectional Univariate Categorical Data.- Regression Models for Univariate Longitudinal Stationary Categorical Data.- Regression Models for Univariate Longitudinal Non-stationary Categorical Data.- Multinomial Models for Cross-sectional Bivariate Categorical Data.- Multinomial Models for Longitudinal Bivariate Categorical Data.- Index.

Fields of interest
Statistical Theory and Methods; Statistics for Social Science, Behavorial Science, Education, Public Policy, and Law; Statistics for Life Sciences, Medicine, Health Sciences

Target groups
Research

Product category
Monograph

Due October 2014

2014. XIV, 346 p. (Springer Series in Statistics)
Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-1-4939-2136-2

S. Wassertheil-Smoller, Albert Einstein College of Medicine, Bronx, NY, USA; **J. Smoller,** Harvard Medical School, Cambridge, MA, USA

Biostatistics and Epidemiology

A Primer for Health and Biomedical Professionals

Since the publication of the first edition, Biostatistics and Epidemiology has attracted loyal readers from across specialty areas in the biomedical community. Not only does this textbook teach foundations of epidemiological design and statistical methods, but it also includes topics applicable to new areas of research.

Features
► Updated edition of a classic text that has brought biostatistics and epidemiology to a broad audience in a very accessible way ► Easily understandable by readers with a non-mathematical background ► Covers the design, analysis and interpretation of observational studies, randomized trials and even genetic research ► Includes topics not usually found in introductory text books, such as propensity analysis, quality of life measures, genome wide association studies, evaluation of new biomarkers

Contents
The Scientific Method.- Probability.- Statistics.- Epidemiology.-Screening.- Clinical Trials.- Quality of Life.- Genetic Epidemiology.- Risk Prediction and Reclassification.- Research Ethics and Statistics.- Postscript.- Appendix A.- Appendix B.- Appendix C.- Appendix D.- Appendix E.- Appendix F.- References.- Suggested Readings.- Index.

Fields of interest
Statistics for Life Sciences, Medicine, Health Sciences; Laboratory Medicine; Epidemiology

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

Due December 2014

4th ed. 2014. X, 280 p. 85 illus., 5 illus. in color.
Softcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 49,50**
► **approx. € 39,99 | £33.99**
ISBN 978-1-4939-2133-1

T. Addis, University of Portsmouth School of Computing, Portsmouth, UK

Natural and Artificial Reasoning

An Exploration of Modelling Human Thinking

What are the limitations of computer models and why do we still not have working models of people that are recognizably human? This is the principle puzzle explored in this book where ideas behind systems that behave intelligently are described and different philosophical issues are touched upon. The key to human behavior is taken to be intelligence and the ability to reason about the world. A strong scientific approach is taken, but first it was required to understand what a scientific approach could mean in the context of both natural and artificial systems. A theory of intelligence is proposed that can be tested and developed in the light of experimental results. The book illustrates that intelligence is much more than just behavior confined to a unique person or a single computer program within a fixed time frame.

Features
► Unique presentation of a range of approaches to the study of intelligent systems ► Enriches the understanding of the fundamentals of artificial intelligence ► The visual functional programming environment used in the book enables readers to easily follow the concepts explored

Contents
Preface.- Insight and Reason.- Information and Intelligence.- Identifying Intelligence.- Knowledge Science.- Modelling Experiments.- Modelling Inference.- Simulating Belief and Action.- Programming and Meaning.- Irrational Reasoning.- Knowledge for Design.- Measures for Intelligence.- Implementing Intelligence.- Figuratively Speaking.- Seeking Allies.

Fields of interest
Artificial Intelligence (incl. Robotics); Models and Principles; Cognitive Psychology

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

O. A. Agustin-Aquino, La Universidad de la Cañada, Teotitlan de Flores Magón, Mexico; **J. Junod,** Université de Lausanne, Epalinges, Switzerland; **G. Mazzola,** University of Minnesota, Minneapolis, MN, USA

Computational Counterpoint Worlds

Mathematical Theory, Software, and Experiments

This first book on this topic is a comprehensive reference on the state of the art. The topics addressed include counterpoint, the first-species model, quasipolarities and interval dichotomies, graphs and transformations, and hypergesture homology. The theory presented also develops counterpoint models for new consonance-dissonance dichotomies. The book is suitable for graduate courses, the authors have a supporting Java implementation available online.

Features
► First book on the computational theory of counterpoint ► Supporting Java implementation available ► Theory develops counterpoint models for new consonance-dissonance dichotomies

Contents
Counterpoint.- First-Species Model.- Preliminary Background.- Quasipolarities and Interval Dichotomies.- Towers of Counterpoint.- Graphs.- Transformations.- Implementation.- Second-Species Model.- Hypergesture Homology.- Glossary.- Index.

Fields of interest
Computer Appl. in Arts and Humanities; Music

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

J.-P. Aumasson, Kudelski Security/Nagravision, Cheseaux-sur-Lausanne, Switzerland; **L. Henzen,** UBS AG, Zürich, Switzerland; **W. Meier,** Fachhochschule Nordwestschweiz, Windisch, Switzerland; **R. C.-W. Phan,** Loughborough University, Loughborough, UK

The Hash Function BLAKE

This book offers both an accessible introduction to hash functions in general and a comprehensive explanation of the BLAKE hash function, one of the finalists in the NIST SHA3 competition. It will be of value to researchers, practitioners, and graduate students in the area of cryptology.

Features
► Technique described was one of the finalists in the NIST SHA3 competition ► Presents technique in an accessible, yet rigorous, treatment ► Accessible introduction to the field of hash functions

Fields of interest
Data Encryption; Systems and Data Security; Algorithm Analysis and Problem Complexity

Target groups
Research

Product category
Monograph

Due November 2014

2014. XVI, 289 p. 59 illus. (Advanced Information and Knowledge Processing) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £55.00**
ISBN 978-3-319-11285-5

Due December 2014

2014. Approx. 335 p. 50 illus., 14 illus. in color. (Computational Music Science) Hardcover
► **approx. *€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **approx. € 59,99 | £53.99**
ISBN 978-3-319-11235-0

Due March 2015

2015. Approx. 230 p. (Information Security and Cryptography) Hardcover
► **approx. *€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **approx. € 84,99 | £76.50**
ISBN 978-3-662-44756-7

J. Bosch, Chalmers University of Technology, Gothenburg, Sweden (Ed)

Continuous Software Engineering

This book provides essential insights on the adoption of modern software engineering practices at large companies producing software-intensive systems, where hundreds or even thousands of engineers collaborate to deliver on new systems and new versions of already deployed ones. It is based on the findings collected and lessons learned at the Software Center (SC), a unique collaboration between research and industry, with Chalmers University of Technology, Gothenburg University and Malmö University as academic partners and Ericsson, AB Volvo, Volvo Car Corporation, Saab Electronic Defense Systems, Grundfos, Axis Communications, Jeppesen (Boeing) and Sony Mobile as industrial partners. The 17 chapters present the "Stairway to Heaven" model, which represents the typical evolution path companies move through as they develop and mature their software engineering capabilities. The chapters describe theoretical frameworks, conceptual models and, most importantly, the industrial experiences gained by the partner companies in applying novel software engineering techniques.

Features
► Provides essential insights on the adoption of modern software engineering practices at large companies producing software-intensive systems ► Presents the "Stairway to Heaven" model, which supports a continuous evolution path to mature software engineering capabilities ► Describe theoretical frameworks, conceptual models and industrial experiences in applying novel software engineering techniques

Fields of interest
Software Engineering; Innovation/Technology Management; Management of Computing and Information Systems

Target groups
Research

Product category
Monograph

Due November 2014

2014. X, 200 p. 50 illus., 30 illus. in color. Hardcover
► ***€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **€ 84,99 | £76.50**
ISBN 978-3-319-11282-4

J. Brauer, Elmshorn, Germany

Programming Smalltalk Object-Orientation from the Beginning

An introduction to the principles of programming

A straightforward, step-by-step introduction to clear and elegant object-oriented programming. Using a language perfect for this kind of programming, the book has been tested in numerous courses and workshops over ten years. "Programming Smalltalk" is particularly suited for readers with no prior programming knowledge. Starting from the first principles of programming, it teaches you how to use and create algorithms (reusable rules for problem-solving) and the basic building blocks of software. It goes on to explain how to develop complete applications and has a whole chapter on web applications as well as case studies. Now translated into English, this edition was completely revised to be consistent with the latest version of Cincom® VisualWorks®, a professional Smalltalk environment. All examples were created using VisualWorks which is available without cost for educational purposes and can be downloaded and installed on any up-to-date computer.

Features
► Easily grasp programming principles and put them into practice immediately ► Plain step-by-step introduction ► Clear guide to object-oriented programming

Fields of interest
Programming Languages, Compilers, Interpreters; Programming Techniques; Software Engineering

Target groups
Lower undergraduate

Product category
Undergraduate textbook

Due February 2015

2015. X, 400 p. 50 illus. Softcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **approx. € 39,99 | £35.99**
ISBN 978-3-658-06822-6

S. Chakraborty, S. Tewari, Birla Institute of Technology (BIT), Ranchi, India; **G. Mazzola,** University of Minnesota, Minneapolis, MN, USA; **M. Patra,** Netaji Subhash Engineering Coll (NSEC), Kolkata, India

Computational Musicology in Hindustani Music

The book opens with a short introduction to Indian music, in particular classical Hindustani music, followed by a chapter on the role of statistics in computational musicology. The authors then show how to analyze musical structure using Rubato, the music software package for statistical analysis, in particular addressing modeling, melodic similarity and lengths, and entropy analysis; they then show how to analyze musical performance. Finally, they explain how the concept of seminatural composition can help a music composer to obtain the opening line of a raga-based song using Monte Carlo simulation.

Features
► First book dedicated to this topic ► Authors are accomplished musicians and musicologists ► Offers unique insights on both structure and performance of Hindustani music

Contents
An Introduction to Hindustani Music.- The Role of Statistics in Computational Musicology.- Introduction to Rubato: The Music Software for Statistical Analysis.- Modeling the Structure of Raga Bhimpalashree: A Statistical Approach.- Analysis of Lengths and Similarity of Melodies in Raga Bhimpalashree.- Raga Analysis Using Entropy.- Modeling Musical Performance Data with Statistics.- A Statistical Comparison of Bhairav (A Morning Raga) and Bihag (A Night Raga).- Seminatural Composition.- Concluding Remarks.

Fields of interest
Computer Appl. in Arts and Humanities; Music; Mathematics in Music

Target groups
Research

Product category
Monograph

Due January 2015

2015. Approx. 130 p. 33 illus. in color. (Computational Music Science) Hardcover
► **approx. *€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **approx. € 84,99 | £76.50**
ISBN 978-3-319-11471-2

A. Colic, O. Marques, B. Furht, Florida Atlantic University, Boca Raton, FL, USA

Driver Drowsiness Detection

Systems and Solutions

This SpringerBrief presents the fundamentals of driver drowsiness detection systems, provides examples of existing products, and offers guides for practitioners interested in developing their own solutions to the problem. Driver drowsiness causes approximately 7% of all road accidents and up to 18% of fatal collisions. Proactive systems that are capable of preventing the loss of lives combine techniques, methods, and algorithms from many fields of engineering and computer science such as sensor design, image processing, computer vision, mobile application development, and machine learning which is covered in this brief. The major concepts addressed in this brief are: the need for such systems, the different methods by which drowsiness can be detected (and the associated terminology), existing commercial solutions, selected algorithms and research directions, and a collection of examples and case studies. These topics equip the reader to understand this critical field and its applications. Detection Systems and Solutions: Driver Drowsiness is an invaluable resource for researchers and professionals working in intelligent vehicle systems and technologies. Advanced-level students studying computer science and electrical engineering will also find the content helpful.

Contents
Introduction.- Driver Drowsiness Detection and Measurement Methods.- Commercial Solutions.- Research Aspects.- Examples.

Fields of interest
Computer Imaging, Vision, Pattern Recognition and Graphics; Multimedia Information Systems; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Brief

Due October 2014

2014. IX, 50 p. 16 illus. (SpringerBriefs in Computer Science) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11534-4

L. Comic, University of Novi Sad, Novi Sad, Serbia; **L. De Floriani, P. Magillo,** University of Genova, Genova, Italy; **F. Iuricich,** University of Maryland, College Park, MD, USA

Morphological Modeling of Terrains and Volume Data

This book describes the mathematical background behind discrete approaches to morphological analysis of scalar fields, with a focus on Morse theory and on the discrete theories due to Banchoff and Forman. The algorithms and data structures presented are used for terrain modeling and analysis, molecular shape analysis, and for analysis or visualization of sensor and simulation 3D data sets. It covers a variety of application domains including geography, geology, environmental sciences, medicine and biology. The authors classify the different approaches to morphological analysis which are all based on the construction of Morse or Morse-Smale decompositions. They describe algorithms for computing such decompositions for both 2D and 3D scalar fields, including those based on the discrete watershed transform. Also addressed are recent developments in the research on morphological shape analysis, such as simplification operators for Morse and Morse-Smale complexes and their multi-resolution representation.

Contents
Background.- Morphology Computation Algorithms: Generalities.- Boundary-Based and Region-Growing Algorithms.- Watershed Algorithms.- A Combinatorial Approach Based on Forman Theory.- Simplification and Multi-Resolution Representations.- Experimental Analysis and Comparisons.

Fields of interest
Mathematics of Computing; Simulation and Modeling; Data Structures

Target groups
Research

Product category
Brief

Due October 2014

2014. VI, 136 p. 55 illus., 42 illus. in color. (SpringerBriefs in Computer Science) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-1-4939-2148-5

A. Eiben, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands; **J. E. Smith,** The University of the West of England, Bristol, UK

Introduction to Evolutionary Computing

The overall structure of this new edition is three-tier: Part I presents the basics, Part II discusses advanced topics, and Part III is concerned with methodological issues. In the second edition the authors have reorganized the material to focus on problems, how to represent them, and then how to choose design algorithms for different representations.

Features
► New edition of well-established undergraduate textbook revised to offer an integrated view on evolution-based problem-solving algorithms ► Suitable for self-study by practitioners and researchers ► Combines chapters on parameter tuning and control with "how-to" chapters in a new book part dedicated to methodology

Contents
Problems to Be Solved.- Evolutionary Computing: The Origins.- What Is an Evolutionary Algorithm?.- Representation, Mutation, and Recombination.- Fitness, Selection, and Population Management.- Popular Evolutionary Algorithm Variants.- Hybridisation with Other Techniques: Memetic Algorithms.- Nonstationary and Noisy Function Optimisation.- Multiobjective Evolutionary Algorithms.- Constraint Handling.- Interactive Evolutionary Algorithms.- Coevolutionary Systems.- Theory.- Evolutionary Robotics.- Parameters and Parameter Tuning.- Parameter Control.- Working with Evolutionary Algorithms.- References.

Fields of interest
Artificial Intelligence (incl. Robotics); Computational Intelligence; Theory of Computation

Target groups
Upper undergraduate

Product category
Undergraduate textbook

Due February 2015

2nd ed. 2015. Approx. 280 p. 68 illus., 8 illus. in color. (Natural Computing Series) Hardcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **approx. € 39,99 | £35.99**
ISBN 978-3-662-44873-1

T. Feller, TU Darmstadt, Darmstadt, Germany

Trustworthy Reconfigurable Systems

Enhancing the Security Capabilities of Reconfigurable Hardware Architectures

Thomas Feller sheds some light on trust anchor architectures for trustworthy reconfigurable systems. He is presenting novel concepts enhancing the security capabilities of reconfigurable hardware. Almost invisible to the user, many computer systems are embedded into everyday artifacts, such as cars, ATMs, and pacemakers. The significant growth of this market segment within the recent years enforced a rethinking with respect to the security properties and the trustworthiness of these systems. The trustworthiness of a system in general equates to the integrity of its system components. Hardware-based trust anchors provide measures to compare the system configuration to reference measurements. Reconfigurable architectures represent a special case in this regard, as in addition to the software implementation, the underlying hardware architecture may be exchanged, even during runtime.

Feature
► Publication in the field of technical science

Contents
Introduction.- Trustworthy Computing.- Requirements for Trustworthiness.- Design Security and Cyber-Physical Threats.- Towards Trustworthy Cyber-Physical Systems.- Application Scenarios.- Summary.

Fields of interest
Computer Hardware; Data Structures, Cryptology and Information Theory

Target groups
Research

Product category
Ph.D. Thesis

Due September 2014

2014. XX, 212 p. 35 illus., 15 illus. in color. Softcover
► ***€ (D) 69,99 | € (A) 71,95 | sFr 87,50**
► **€ 65,41 | £58.99**
ISBN 978-3-658-07004-5

F. Gao, Tsinghua University, Beijing, China; **C. Xing,** Beijing Institute of Technology, Beijing, China

Channel Estimation for Physical Layer Network Coding Systems

This SpringerBrief presents channel estimation strategies for the physical later network coding (PLNC) systems. Along with a review of PLNC architectures, this brief examines new challenges brought by the special structure of bi-directional two-hop transmissions that are different from the traditional point-to-point systems and unidirectional relay systems. The authors discuss the channel estimation strategies over typical fading scenarios, including frequency flat fading, frequency selective fading and time selective fading, as well as future research directions. Chapters explore the performance of the channel estimation strategy and optimal structure of training sequences for each scenario. Besides the analysis of channel estimation strategies, the book also points out the necessity of revisiting other signal processing issues for the PLNC system. Channel Estimation of Physical Layer Network Coding Systems is a valuable resource for researchers and professionals working in wireless communications and networks. Advanced-level students studying computer science and electrical engineering will also find the content helpful.

Contents
Fundamentals of Physical Layer Network Coding.- Background on Channel Estimation.- Channel Estimation for PLNC under Frequency Flat Fading Scenarios.- Channel Estimation for PLNC under Frequency Selective Fading Scenarios.- Channel Estimation for PLNC under Time-Selective Fading Scenarios.- Conclusions and Future Directions.

Fields of interest
Coding and Information Theory; Communications Engineering, Networks; Signal,Image and Speech Processing

Target groups
Research

Product category
Brief

Due October 2014

2014. X, 76 p. 25 illus., 5 illus. in color. (SpringerBriefs in Computer Science) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11667-9

M. G. Harvey, Johns Hopkins University, Pittsburgh, PA, USA

Wireless Next Generation Networks

A Virtue-Based Trust Model

This SpringerBrief proposes a trust model motivated by virtue epistemology, addressing the need for a more efficient and flexible trust model for wireless next generation networks. This theory of trust simplifies the computation and communication overhead of strictly cognitive-computational models of trust. Both the advantages and the challenges of virtue-based trust models are discussed. This brief offers new research and a general theory of rationality that enables users to interpret trust and reason as complementary mechanisms that guide our rational conduct at two different epistemic levels. The presented model of human social interaction is designed for the highly dynamic and unstructured environment of the mobile Internet and wireless next generation networks. Wireless Next Generation Networks: A Virtue-Based Trust Model targets network engineers, cognitive scientists, AI researchers, philosophers, and social scientists. Advanced-level students studying computer science, electrical engineering and social science will also find the interdisciplinary perspective useful.

Contents
Introduction: Motivations for a New Trust Model.- Wireless Threats and Key Management Issues.- Trust, Epistemic Normativity, and Rationality.- Challenges to Virtue Perspectivism.- Other Theories of Trust and Trust Models.- A Normative Virtue-Based Trust Model.- Conclusion: Modeling Human Social Interaction.

Fields of interest
Computer Communication Networks; Communications Engineering, Networks; User Interfaces and Human Computer Interaction

Target groups
Research

Product category
Brief

Due November 2014

2014. X, 120 p. 17 illus. (SpringerBriefs in Electrical and Computer Engineering) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11902-1

Y. Huang, T. Tan, Institute of Automation Chinese Academy of Sciences, Beijing, China

Feature Coding for Image Representation and Recognition

This brief presents a comprehensive introduction to feature coding, which serves as a key module for the typical object recognition pipeline.

Features
► Overviews all the aspects of feature coding, from motivation, mathematical representation to applications in practice ► Review the state-of-the-art and explore the evolvement of various algorithms ► Categorize the existing typical feature coding algorithms and summarize the characteristics ► Provide the suggestions of employing feature coding in practice and forecast potential directions of this area ► Supplies supplementary materials such as source codes of the algorithm framework and all related feature coding algorithms at the associated website, http://www.openpr.org.cn/index.php/All/92-Evaluation-toolkit/View-details.html

Fields of interest
Pattern Recognition; Image Processing and Computer Vision; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Brief

Due December 2014

2014. Approx. 75 p. 20 illus. (SpringerBriefs in Computer Science) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-662-44999-8

P. Kacsuk, Hungarian Academy of Sciences (MTA), Budapest, Hungary (Ed)

Science Gateways for Distributed Computing Infrastructures

Development Framework and Exploitation by Scientific User Communities

The book describes the science gateway building technology developed in the SCI-BUS European project and its adoption and customization method, by which user communities, such as biologists, chemists, and astrophysicists, can build customized, domain-specific science gateways. Many aspects of the core technology are explained in detail, including its workflow capability, job submission mechanism to various grids and clouds, and its data transfer mechanisms among several distributed infrastructures. The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways.

Features
► Shows users how to build customized, domain-specific science gateways ► Authors drawn from diverse fields, including biology, chemistry, and astrophysics ► Useful for computational scientists engaged in the design of distributed data management infrastructures

Contents
WS-PGRADE/gUSE Science Gateway Framework.- Domain-Specific Science Gateways Customized from the WS-PGRADE/gUSE Framework.- Further Applications of WS-PGRADE/gUSE.- Conclusions and Outlook.

Fields of interest
Software Engineering/Programming and Operating Systems; Information Systems and Communication Service; Business Information Systems

Target groups
Research

Product category
Monograph

Due December 2014

2014. Approx. 290 p. 94 illus., 88 illus. in color. Hardcover
► **approx. *€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **approx. € 84,99 | £76.50**
ISBN 978-3-319-11267-1

D. Kainmueller, MPI für Zellbiologie und Genetik, Dresden, Germany

Deformable Meshes for Medical Image Segmentation

Accurate Automatic Segmentation of Anatomical Structures

Segmentation of anatomical structures in medical image data is an essential task in clinical practice. Dagmar Kainmueller introduces methods for accurate fully automatic segmentation of anatomical structures in 3D medical image data. The author's core methodological contribution is a novel deformation model that overcomes limitations of state-of-the-art Deformable Surface approaches, hence allowing for accurate segmentation of tip- and ridge-shaped features of anatomical structures. As for practical contributions, she proposes application-specific segmentation pipelines for a range of anatomical structures, together with thorough evaluations of segmentation accuracy on clinical image data. As compared to related work, these fully automatic pipelines allow for highly accurate segmentation of benchmark image data.

Feature
► Publication in the field of technical sciences

Contents
Deformable Meshes for Accurate Automatic Segmentation.- Omnidirectional Displacements for Deformable Surfaces (ODDS).- Coupled Deformable Surfaces for Multi-object Segmentation.

Fields of interest
Computer Imaging, Vision, Pattern Recognition and Graphics; Biomedical Engineering

Target groups
Research

Product category
Monograph

Available

2015. XVIII, 180 p. 52 illus., 30 illus. in color. (Aktuelle Forschung Medizintechnik – Latest Research in Medical Engineering) Softcover
► ***€ (D) 69,99 | € (A) 71,95 | sFr 87,50**
► **€ 65,41 | £58.99**
ISBN 978-3-658-07014-4

D. Keller, Universidade Federal do Acre (UFAC), Rio Branco, Brazil; **V. Lazzarini,** Natl Univ of Ireland, Maynooth (NUIM), Co. Kildare, Ireland; **M. S. Pimenta,** Fed Univ of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil (Eds)

Ubiquitous Music

This is the first monograph dedicated to this interdisciplinary research area, combining the views of music, computer science, education, creativity studies, psychology, and engineering. The contributions include introductions to ubimus research, featuring theory, applications, and technological development, and descriptions of permanent community initiatives such as virtual forums, multi-institutional research projects, and collaborative publications. The book will be of value to researchers and educators in all domains engaged with creativity and computing.

Features
► First book dedicated to this topic ► Adopts a socially grounded view of creative practice ► Explains both cutting-edge art and theoretical knowledge

Contents
Ubiquitous Music: A Manifesto.- Ubimus Through the Lens of Creativity Theories.- Methods in Creativity-Centered Design for Ubiquitous Musical Activities.- Repertoire Remix in the Context of Festival City.- Making Meaningful Musical Experiences Accessible Using the iPad.- Analogue Audio Recording Using Remote Servers.- Development Tools for Ubiquitous Music on the World-Wide Web.- Ubiquitous Music Ecosystems: Faust Programs in Csound.- Index.

Fields of interest
Computer Appl. in Arts and Humanities; Music; Mathematics in Music

Target groups
Research

Product category
Monograph

Due November 2014

2014. X, 178 p. 33 illus. (Computational Music Science) Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-319-11151-3

Ç. K. Koç, University of California, Santa Barbara, Santa Barbara, CA, USA (Ed)

Open Problems in Mathematics and Computational Science

This book presents interesting, important unsolved problems in the mathematical and computation sciences.

Features
► Aims to motivate the mathematical and computational sciences community to discuss open problems ► Presents interesting, creative approaches to problem-solving ► Authors among the leading researchers in their fields

Contents
About Open Problems.- The Past, Evolving Present, and Future of the Discrete Logarithm.- Isogenies in Theory and Praxis.- Another Look at Security Theorems for 1-Key Nested MACs.- Non-extendable Fq-Quadratic Perfect Nonlinear Maps.- Open Problems for Polynomials over Finite Fields and Applications.- Generating Good Span n Sequences Using Orthogonal Functions in Nonlinear Feedback Shift Registers.- Open Problems on the Crosscorrelation of m-Sequences.- Open Problems on With-Carry Sequence Generators.- Open Problems on Binary Bent Functions.- On Semi-bent functions and Related Plateaued Functions over the Galois field F2n.- True Random Number Generators.- How to Sign Paper Contracts? Conjectures and Evidence Related to Equitable and Efficient Collaborative Task Scheduling.- Theoretical Parallel Computing Models for GPU Computing.- Membrane Computing: Basics and Frontiers.- A Panorama of Post-quantum Cryptography.

Fields of interest
Data Structures, Cryptology and Information Theory; Theory of Computation; Mathematics of Computing

Target groups
Research

Product category
Monograph

Due November 2014

2014. Approx. 350 p. 77 illus., 20 illus. in color. Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-3-319-10682-3

A. Kott, United States Army Research Laboratory, Adelphi, MD, USA; **C. Wang,** United States Army Research Office, Research Triangle Park, NC, USA; **R. Erbacher,** United States Army Research Laboratory, Adelphi, MD, USA (Eds)

Cyber Defense and Situational Awareness

This book is the first publication to give a comprehensive, structured treatment to the important topic of situational awareness in cyber defense. It presents the subject in a logical, consistent, continuous discourse, covering key topics such as formation of cyber situational awareness, visualization and human factors, automated learning and inference, use of ontologies and metrics, predicting and assessing impact of cyber attacks, and achieving resilience of cyber and physical mission.

Features
► Provides comprehensive, structured treatment of the subject in a logical, consistent, continuous discourse, covering all key topics relevant to the field ► Supplies easy-to-read introductions, summaries, practical observations and case studies in each chapter ► Brings together prominent authors with extensive academic research experiences as well as practitioners responsible for day-to-day defense of computer networks against highly sophisticated attackers

Contents
Preview.- Foundations and Challenges.- Cyber and Kinetic.- Formation of Awareness.- Network-wide Awareness.- Cognition and Technology.- Cognitive Process.- Visualization and Analysts.- Inference and Ontology.- Learning and Semantics.- Impact Assessment.- Attack Projection.- Metrics of Security.- Mission Resilience.- Concluding Thoughts.

Fields of interest
Systems and Data Security; Computer Communication Networks; Data Encryption

Target groups
Research

Product category
Contributed volume

Due November 2014

2014. XII, 266 p. 84 illus., 56 illus. in color. (Advances in Information Security, Volume 62) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11390-6

A.-L. Lamprecht, University of Potsdam, Potsdam, Germany; **T. Margaria,** Universität Potsdam Inst. Informatik, Potsdam, Germany (Eds)

Process Design for Natural Scientists

An Agile Model-Driven Approach

This book presents an agile and model-driven approach to manage scientific workflows. The approach is based on the Extreme Model Driven Design (XMDD) paradigm and aims at simplifying and automating the complex data analysis processes carried out by scientists in their day-to-day work. Besides documenting the impact the workflow modeling might have on the work of natural scientists, this book serves three major purposes: 1. It acts as a primer for practitioners who are interested to learn how to think in terms of services and workflows when facing domain-specific scientific processes. 2. It provides interesting material for readers already familiar with this kind of tools, because it introduces systematically both the technologies used in each case study and the basic concepts behind them.

Features
► Serves as a primer for the field of scientific workflows ► Includes an extensive number of applications and case studies in bioinformatics and geovisualization domains ► Addresses the current topics related to big data and reproducible science ► Can be used as a text book for students in experimental sciences

Contents
Framework.- Bioinformatics applications.- Geovisualization applications.

Fields of interest
Models and Principles; Software Engineering; Simulation and Modeling

Target groups
Research

Product category
Contributed volume

Due January 2015

2015. Approx. 260 p. (Communications in Computer and Information Science, Volume 500) Softcover
► approx. * € (D) 62,06 | € (A) 63,80 | sFr 77,50
► approx. € 58,00 | £52.99
ISBN 978-3-662-45005-5

R. Lavi, Technion - Israel Institute of Science, Haifa, Israel (Ed)

Algorithmic Game Theory

7th International Symposium, SAGT 2014, Haifa, Israel, September 30 -- October 2, 2014, Proceedings

This book constitutes the refereed proceedings of the 7th International Symposium on Algorithmic Game Theory, SAGT 2014, held in Haifa, Israel, in October 2014. The 24 full papers and 5 short papers presented were carefully reviewed and selected from 65 submissions. They cover various important aspects of algorithmic game theory, such as matching theory, game dynamics, games of coordination, networks and social choice, markets and auctions, price of anarchy, computational aspects of games, mechanism design and auctions.

Contents
Matching theory.- Game dynamics.- Games of coordination.- Networks and social choice.- Markets and auctions.- Price of anarchy.- Computational aspects of games.- Mechanism design and auctions.

Fields of interest
Simulation and Modeling; e-Commerce/e-business; Models and Principles

Target groups
Research

Product category
Monograph

Due December 2014

2014. XIV, 297 p. 8 illus. (Lecture Notes in Computer Science / Information Systems and Applications, incl. Internet/Web, and HCI, Volume 8768) Softcover
► * € (D) 59,92 | € (A) 61,60 | sFr 75,00
► € 56,00 | £50.99
ISBN 978-3-662-44802-1

W. Li, Beihang University State Key Lab. Software, Beijing, China

Mathematical Logic

Foundations for Information Science

Mathematical logic is a branch of mathematics that takes axiom systems and mathematical proofs as its objects of study. This book shows how it can also provide a foundation for the development of information science and technology.

Features
► Research monograph of textbook style with well-structured presentation and formal proofs for all theoretical results, illustrated by concrete examples ► New ideas and methodologies from information science and technology are used to annotate the concepts and theorems of mathematical logic, providing a new angle of view for readers from mathematics and a friendly environment for readers from information science to understand the quintessence of mathematical logic ► The author's original work on version sequences, revision calculus, and language environments is coherently integrated into the book, enriching the content and the scope of application of mathematical logic

Contents
Preface.- Preface to the Second Edition.- I Elements of Mathematical Logic.- 1 Syntax of First-Order Languages.- 2 Models of First-Order Languages.- 3 Formal Inference Systems.- 4 Computability & Representability.- 5 Gödel Theorems.- II Logical Framework of Scientific Discovery.- 6 Sequences of Formal Theories.- 7 Revision Calculus.- 8 Version Sequences.- 9 Inductive Inference.- 10 Meta-Language Environments.- Appendix 1 Sets and Maps.- Appendix 2 Proof of the Representability Theorem.- Bibliography.- Index.

Fields of interest
Mathematical Logic and Formal Languages; Mathematical Logic and Foundations

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due February 2015

2nd ed. 2015. XII, 287 p. (Progress in Computer Science and Applied Logic, Volume 25) Hardcover
► approx. * € (D) 90,94 | € (A) 93,49 | sFr 113,50
► approx. € 84,99 | £76.50
ISBN 978-3-0348-0861-3

Y. Malitsky, IBM Thomas J. Watson Res. Center, Yorktown Heights, NY, USA

Instance-Specific Algorithm Configuration

This book presents a modular and expandable technique in the rapidly emerging research area of automatic configuration and selection of the best algorithm for the instance at hand. The author presents the basic model behind ISAC and then details a number of modifications and practical applications. In particular, he addresses automated feature generation, offline algorithm configuration for portfolio generation, algorithm selection, adaptive solvers, online tuning, and parallelization. The author's related thesis was honorably mentioned (runner-up) for the ACP Dissertation Award in 2014, and this book includes some expanded sections and notes on recent developments.

Features
► Author presents the basic model and also details practical applications ► Interesting for researchers and practitioners in machine learning and constraint programming ► Technique presented is modular and expandable

Contents
Introduction.- Survey of Related Work.- Architecture of Instance-Specific Algorithm Configuration Approach.- Applying ISAC to Portfolio Selection.- Generating a Portfolio of Diverse Solvers.- Handling Features.- Developing Adaptive Solvers.- Making Decisions Online.- Conclusions.

Fields of interest
Artificial Intelligence (incl. Robotics); Optimization; Combinatorics

Target groups
Research

Product category
Monograph

T. Marwala, University of Johannesburg, Auckland Park, South Africa

Artificial Intelligence Techniques for Rational Decision Making

Develops insights into solving complex problems in engineering, biomedical sciences, social science and economics based on artificial intelligence.

Features
► Presents new insights into the theories of bounded rationality and counterfactuals ► Explains the theories and applications of artificial intelligence in biomedical sciences, engineering, economics and social sciences ► Proposes linkages between counterfactuals, rationality, causality, correlation and artificial intelligence

Contents
Introduction to Rational Decision Making. – Casual Function for Rational Decision Making: Application to Militarized Interstate Disputes.- Correlation Function for Rational Decision Making: Application to Epileptic Activity. – Missing Data Approaches for Rational Decision Making: Application to Anecdotal Data. –Rational Counterfactuals and Decision Making: Application to Interstate Conflict.- Flexibility-Bounded Rationality in Interstate Conflict.- Filtering Irrelevant Information for Rational Decision Making.- Group Decision Making.- Conclusion.- Appendix A: Fourier Transform, Wavelet Transform, Modal Properties and Pseudo-Modal Energies.- Appendix B: Committee of Networks.

Fields of interest
Artificial Intelligence (incl. Robotics); Computational Intelligence; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences

Target groups
Research

Product category
Monograph

P. Muneesawang, Naresuan University, Muang, Thailand; **N. Zhang, L. Guan,** Ryerson University, Toronto, ON, Canada

Multimedia Database Retrieval

Technology and Applications

This book explores multimedia applications that emerged from computer vision and machine learning technologies. These state-of-the-art applications include MPEG-7, interactive multimedia retrieval, multimodal fusion, annotation, and database re-ranking. The application-oriented approach maximizes reader understanding of this complex field.

Features
► Reinforces basic principles for the development of tools and systems in the field ► Offers an application-oriented view of multimedia technology with a balanced perspective on multimedia processing ► Reviews the key recent research in all aspects of multimedia including metadata, image, video, and audio

Contents
Introduction.- Kernel-Based Adaptive Image Retrieval Methods.- Self-Adaptation in Image and Video Retrieval.- Interactive Mobile Visual Search and Recommendation at Internet Scale.- Mobile Landmark Recognition.- Image Retrieval from a Forensic Cartridge Case Database.- Indexing, Object Segmentation, and Event Detection in News and Sports Videos.- Adaptive Retrieval in a P2P Cloud Datacenter.- Scalable Video Genre Classification and Event Detection.- Audio-Visual Fusion for Film Database Retrieval and Classification.- Motion Database Retrieval with Application to Gesture Recognition in a Virtual Realty Dance Training System.

Fields of interest
Multimedia Information Systems; Information Storage and Retrieval; Database Management

Target groups
Research

Product category
Monograph

Due January 2015

2014. Approx. 160 p. 13 illus., 11 illus. in color. Hardcover
► approx. *€ (D) 90,94 | € (A) 93,49 | sFr 113,50
► approx. € 84,99 | £76.50
ISBN 978-3-319-11229-9

Due November 2014

2014. XII, 198 p. 35 illus. (Advanced Information and Knowledge Processing) Hardcover
► *€ (D) 90,94 | € (A) 93,49 | sFr 113,50
► € 84,99 | £59.99
ISBN 978-3-319-11423-1

Due October 2014

2014. X, 360 p. 141 illus., 110 illus. in color. (Multimedia Systems and Applications) Hardcover
► *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-3-319-11781-2

W. W. Osterhage, Wachtberg-Niederbachem, Germany

IT Quality Management

In a comprehensive approach this book covers the end-to-end Process from request management to change management, error management and migration management to acceptance testing and final data clean up. It is based upon nearly twenty years of experience in tests, acceptance and certification, when introducing medium to large IT systems including complex software for administrations and industry in many countries. There exist a variety of methodologies with different characteristics having emanated from various schools and consultancies to support such activities. However, it is obvious that because of the diversity in organisational levels in companies the rigor of application of such methodologies quite often suffers with regard to more pragmatic approaches. In view of economic considerations this may be unavoidable.

Features
► Includes tips on how to implement successfully large IT systems ► Approach oriented on practical criteria ► Covers cover end-to-end process from request to acceptance

Contents
Objectives.- Project Organisation.- Quality Management in the Context of Acceptance.- Subproject Organisation Quality Management.- Acceptance Directive.- Methods of Data and Software Migration.- Special Cases.- Documentation.- Security Aspects.- Project Management.- Project Controlling.- References.- Subject Index.

Fields of interest
Computer System Implementation; Management of Computing and Information Systems; Performance and Reliability

Target groups
Professional/practitioner

Product category
Monograph

S. Pape, TU Dortmund, Dortmund, Germany

Authentication in Insecure Environments

Using Visual Cryptography and Non-Transferable Credentials in Practise

Sebastian Pape discusses two different scenarios for authentication. On the one hand, users cannot trust their devices and nevertheless want to be able to do secure authentication. On the other hand, users may not want to be tracked while their service provider does not want them to share their credentials. Many users may not be able to determine whether their device is trustworthy, i.e. it might contain malware. One solution is to use visual cryptography for authentication. The author generalizes this concept to human decipherable encryption schemes and establishes a relationship to CAPTCHAS. He proposes a new security model and presents the first visual encryption scheme which makes use of noise to complicate the adversary's task.

Feature
► Publication in the field of technical sciences

Contents
Mathematical and Cryptographic Foundation.- Human Decipherable Encryption Schemes: Introduction, Scenario, and Related Work - Human Decipherable Encryption Scheme - Encryption Schemes Based on Dice Codings - Conclusion and Future Work.- Non-Transferable Anonymous Credentials: Introduction, Scenario, and Related Work - Privacy and Data Security - Analysis of Non-Transferable Anonymous Credentials - Conclusion and Future Work.- Outlook and Appendix.

Fields of interest
Data Structures, Cryptology and Information Theory; Information Systems and Communication Service

Target groups
Research

Product category
Ph.D. Thesis

M. Ribeiro, Federal University of Alagoas, Maceió, Brazil; **P. Borba,** Federal University of Pernambuco, Informatics Center, Recife, Brazil; **C. Brabrand,** IT University of Copenhagen, Copenhagen S, Denmark

Emergent Interfaces for Feature Modularization

Developers frequently introduce errors into software systems when they fail to recognise module dependencies. Using forty-three software families and Software Product Lines (SPLs), where the majority are commonly used in industrial practice, the authors reports on the feature modularization problem and provides a study of how often it may occur in practice. To solve the problem they present the concept of emergent feature modularization which aims to establish contracts between features to prevent developers from breaking other features when performing a maintenance task.

Features
► Discusses the feature modularization problem and presents a study on how frequently it may occur in practice ► Introduces the concept of Emergent Interfaces to improve feature modularization ► Provides a prototype tool "Emergo" to support developers with Emergent Interfaces ► Presents an empirical study using proxy metrics to evaluate the potential of Emergent Interfaces to reduce maintenance effort

Contents
Introduction.- Software Families, Software Products and Dataflow Analysis.- Feature Dependencies.- Emergent Feature Modularization.- Evaluation.- Related Works.- Concluding Remarks.

Field of interest
Software Engineering

Target groups
Research

Product category
Brief

Due February 2015

2015. Approx. 220 p. 55 illus. Hardcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **approx. € 39,99 | £35.99**
ISBN 978-3-662-43766-7

Due September 2014

2014. XVI, 362 p. 46 illus., 6 illus. in color. Softcover
► ***€ (D) 79,99 | € (A) 82,24 | sFr 100,00**
► **€ 74,76 | £67.99**
ISBN 978-3-658-07115-8

Due November 2014

2014. XVIII, 84 p. 39 illus. (SpringerBriefs in Computer Science) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-11492-7

C. Sun, T. Bednarz, CSIRO, Sydney, NSW, Australia; **T. D. Pham,** The University of Aizu, Fukushima, Japan; **P. Vallotton, D. Wang,** CSIRO, Sydney, NSW, Australia (Eds)

Signal and Image Analysis for Biomedical and Life Sciences

Contents
Visual Analytics of Signalling Pathways Using Time Profiles.- Modeling of Testosterone Regulation by Pulse-modulated Feedback.- Hybrid Algorithms for Multiple Change-Point Detection in Biological Sequence.- Stochastic Anomaly Detection in Eye-Tracking Data for Quantification of Motor Symptoms in Parkinson's Disease.- Identification of the Reichardt Elementary Motion Detector Model.- Multi-Complexity Ensemble Measures for Gait Time Series Analysis: Application to Diagnostics, Monitoring and Biometrics.- Development of a Motion Capturing and Load Analyzing System for Caregivers Aiding a Patient to Sit Up in Bed.- Classifying Epileptic EEG Signals with Delay Permutation Entropy and Multi-Scale K-means.- Tracking of EEG Activity Using Motion Estimation to Understand Brain Wiring.- Towards Automated Quantitative Vasculature Understanding via Ultra High-Resolution Imagery.- Cloud Based Toolbox for Image Analysis, Processing and Reconstruction Tasks.- Pollen Image Classification Using the Classifynder System: Algorithm Comparison and a Case Study on New Zealand Honey.- Digital Image Processing and Analysis for Activated Sludge Wastewater Treatment.- A Complete System for 3D Reconstruction of Roots for Phenotypic Analysis.

Fields of interest
Image Processing and Computer Vision; Biomedicine general; Life Sciences, general

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XXII, 318 p. 113 illus., 71 illus. in color. (Advances in Experimental Medicine and Biology, Volume 823) Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-10983-1

D. Wang, Beihang University, Beijing, China; **J. Xiao,** University of North Carolina at Charlotte, Charlotte, NC, USA; **Y. Zhang,** Beihang University, Beijing, China

Haptic Rendering for Simulation of Fine Manipulation

This book introduces the latest progress in six degrees of freedom (6-DoF) haptic rendering with the focus on a new approach for simulating force/torque feedback in performing tasks that require dexterous manipulation skills. One of the major challenges in 6-DoF haptic rendering is to resolve the conflict between high speed and high fidelity requirements, especially in simulating a tool interacting with both rigid and deformable objects in a narrow space and with fine features. The book presents a configuration-based optimization approach to tackle this challenge. Addressing a key issue in many VR-based simulation systems, the book will be of particular interest to researchers and professionals in the areas of surgical simulation, rehabilitation, virtual assembly, and inspection and maintenance.

Features
► Introduces novel algorithms for 6-DoF haptic rendering of both rigid and deformable objects in complex interaction ► Targets simulation of fine manipulation ► Applies haptic rendering to dental simulation ► Addresses evaluation of 6-DoF haptic rendering methods ► Provides internet support with downloadable demos and codes

Fields of interest
User Interfaces and Human Computer Interaction; Simulation and Modeling; Robotics and Automation

Target groups
Research

Product category
Monograph

Due November 2014

2014. IX, 163 p. 127 illus., 108 illus. in color. Hardcover
► ***€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **€ 69,99 | £62.99**
ISBN 978-3-662-44948-6

C. Wyrwoll, Universität Hamburg, Hamburg, Germany

Social Media

Fundamentals, Models, and Ranking of User-Generated Content

The increasing amount of user-generated content available on social media platforms requires new methods to find, evaluate, and to compare. To this day, existing ranking approaches to user-generated content do not allow for evaluation across platforms by exploiting its metadata. User-generated content, such as blog postings, forum discussions, shared videos etc. does however contain information that can be used for its evaluation independent of specific search interests. Claudia Wyrwoll presents a query- and language-independent ranking approach that allows for global evaluation of user-generated content across different platforms. Building on an insightful introduction into social media fundamentals, she proposes new models describing phenomena associated with social media, laying the foundation for further research and development.

Feature
► Introduction to User-Generated Contents on Social Media Platforms

Contents
Introduction.- User-Generated Content.- Metadata in User-Generated Content.- Towards Query-Independent Ranking.- A Cross-Platform Ranking Approach.- Applications.- Conclusion.

Fields of interest
Computers and Society; Information Systems Applications (incl.Internet); User Interfaces and Human Computer Interaction

Target groups
Research

Product category
Ph.D. Thesis

Available

2014. XVII, 167 p. 28 illus. Softcover
► ***€ (D) 69,99 | € (A) 71,95 | sFr 87,50**
► **€ 65,41 | £58.99**
ISBN 978-3-658-06983-4

S. Zeadally, University of Kentucky, Lexington, KY, USA; **M. Badra,** Zayed University, Abu Dhabi, Utd. Arab.Emir. (Eds)

Privacy in a Digital, Networked World

Technologies, Implications and Solutions

Various parties are increasingly interested in collecting information about users and their activities in many facets of life. Some wish to provide customized services and applications to better meet the needs of end-users. Others argue that the collected information helps them to improve security. Yet often the means by which such information is collected does not give much consideration to the privacy of individuals.

Features
► A single, comprehensive text suitable for teaching courses on privacy ► Interdisciplinary in scope, touching on such areas as cloud computing, social networking, law, healthcare, smart grids, and big data ► Examines in detail cutting-edge technologies, discusses current challenges, and presents illuminating perspectives on privacy

Contents
Fundamental Concepts of Privacy.- Web Privacy.- Location Privacy.- Economics of Privacy.- Privacy in Healthcare.- Information Utility and Privacy.- Privacy in Cloud Computing.- Privacy in Databases.- Privacy in Social Networks.- Privacy in Electronic Communications.- Usability of Privacy Features.- Privacy: Law and Ethics.- Privacy in Smart Grid.- Privacy in Vehicular Ad Hoc Networks.- Privacy in Peer-to-Peer Networks.- Privacy Design and Model.- Privacy Tools.- Case Studies of Privacy Features.- Case Studies of Privacy Technologies.

Fields of interest
Information Storage and Retrieval; Data Storage Representation; Management of Computing and Information Systems

Target groups
Research

Product category
Monograph

Due February 2015

2015. Approx. 600 p. (Computer Communications and Networks) Hardcover
► approx. *€ (D) 117,69 | € (A) 120,99 | sFr 146,50
► approx. € 109,99 | £99.00
ISBN 978-3-319-08469-5

Y. Aoki, Kyushu University, Kasuga, Japan; **F. L. Gu,** South China Normal University, Guangzhou, China; **M. Springborg,** University of Saarland, Saarbruecken, Germany; **B. Kirtman,** University of California, Santa Barbara, CA, USA (Eds)

Calculations on nonlinear optical properties for large systems

The elongation method

For design purposes one needs to relate the structure of proposed materials to their NLO (nonlinear optical) and other properties, which is a situation where theoretical approaches can be very helpful in providing suggestions for candidate systems that subsequently can be synthesized and studied experimentally. This brief describes the quantum-mechanical treatment of the response to one or more external oscillating electric fields for molecular and macroscopic, crystalline systems. To calculate NLO properties of large systems, a linear scaling generalized elongation method for the efficient and accurate calculation is introduced.

Features
► Written by a leading academic ► Theory is applied to biological and nano systems ► Includes details on how to implement the technique

Contents
Survey of Nonlinear Optical Materials.- Quantum-Mechanical Treatment of Responses to Electric Fields — Molecular Systems.- Quantum-Mechanical Treatment of Responses to Electric Fields — Extended Systems.- The Elongation Method,- Applications of the Elongation Method to NLO Properties.- Future Prospects.

Fields of interest
Theoretical and Computational Chemistry; Optics and Electrodynamics; Nanotechnology

Target groups
Research

Product category
Brief

Due December 2014

2014. XII, 98 p. 17 illus., 13 illus. in color. (SpringerBriefs in Molecular Science / SpringerBriefs in Electrical and Magnetic Properties of Atoms, Molecules, and Clusters) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-11067-7

A. Apelblat, Ben-Gurion University of the Negev, Beer Sheva, Israel

Citric Acid

This monograph is devoted to different aspects associated with citric acid, inorganic citrates and their aqueous and organic solutions. It includes information about properties, occurrence and technological applications of citric acid and inorganic citrates. Phase equilibria - melting, freezing, boiling, vapour pressures, solubilities of citric acid in water, organic solvents and ternary systems are presented, correlated, and analyzed. Dynamic properties - viscosities, diffusion coefficients, electrical conductivities and surface tensions are examined. Mathematical representations of citric acid dissociation, in electrolyte solutions and in buffers are discussed. Citric acid chemistry - syntheses of citric acid, neutralization, degradation, oxidation, esterification, formation of anhydrides, amides and citrate-based siderophores is reviewed.

Features
► No other book features included material ► Contains interdisciplinary material ► Includes numerous tables and correlations of examined and analyzed physicochemical data ► Illustrated with several colour figures

Contents
Preface.- Chapter.- Introduction.- Properties of Citric Acid and its Solutions.- Dissociation Equilibria in Solutions with Citrate Ions.- Citric Acid Chemistry.- Physicochemical Properties of Inorganic Citrates.- References.

Fields of interest
Physical Chemistry; Food Science; Pharmaceutical Sciences/Technology

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 500 p. 88 illus., 55 illus. in color. Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-3-319-11232-9

G. Barbieri, Experimental Station for the Food Preserving Industry, Parma, Italy; **C. Barone,** ENFAP Comitato Regionale Sicilia, Palermo, Italy; **A. Bhagat,** Butterfield Foods, Indianapolis, IN, USA; **G. Caruso,** Palermo, Italy; **Z. R. Conley,** Stowers Institute for Medical Research, Kansas City, MO, USA; **S. Parisi,** Gambino Industrie Alimentari S.p.A, Palermo, Italy

The Influence of Chemistry on New Foods and Traditional Products

This Brief concerns the influence of chemistry in the modern food and beverages industry. The world of traditional foods has been soundlessly but increasingly interconnected with the chemical industry in the last century. Different areas are considered in a multidisciplinary approach: - the production of chemical additives and of non-food components needed in the food industry (e.g.

Features
► Written by experts from different disciplines ► Discusses the influence of chemistry in the modern food and beverages industry ► Regards different viewpoints, from food additives management to modern production of traditional products ►

Contents
The Problem of Aqueous Absorption in Processed Cheeses.- The Prediction of Shelf Life Values in Function of the Chemical Composition in Soft Cheeses.- Chemical and Health Features of Cooked Cold Meats.- Sweet Compounds in Foods: Sugar Alcohols.- Food Manufacturing and Allergen Management.

Fields of interest
Food Science; Nutrition; Allergology

Target groups
Research

Product category
Brief

Due October 2014

2014. VI, 65 p. 15 illus., 11 illus. in color. (SpringerBriefs in Molecular Science / Chemistry of Foods) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11357-9

L. K. Bieniasz, Cracow University of Technology, Cracow, Poland

Modelling Electroanalytical Experiments by the Integral Equation Method

This comprehensive presentation of the integral equation method as applied to electro-analytical experiments is suitable for electrochemists, mathematicians and industrial chemists. The discussion focuses on how integral equations can be derived for various kinds of electro-analytical models. The book begins with models independent of spatial coordinates, goes on to address models in one dimensional space geometry and ends with models dependent on two spatial coordinates.

Features
► A well-organised presentation suitable for electrochemists, mathematicians and industrial chemists ► Thorough literature overview included ► Interdisciplinary through coverage of electrochemical, mathematical and computational examples

Contents
Introduction.- Basic Assumptions and Equations of Electroanalytical Models.- Mathematical Preliminaries.- Models Independent of Spatial Coordinates.- Models Involving One-Dimensional Diffusion.- Models Involving One-Dimensional Convection-Diffusion.- Models Involving Two- and Three-Dimensional Diffusion.- Models Involving Transport Coupled with Homogeneous Reactions.- Models Involving Disturbed and Localised Species.- Models Involving Additional Complications.- Analytical Solution Methods.- Numerical Solution Methods.- Appendices.

Fields of interest
Electrochemistry; Analytical Chemistry; Theoretical and Computational Chemistry

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 377 p. 21 illus. (Monographs in Electrochemistry) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-662-44881-6

J. Gurtler, U.S. Department of Agriculture ARS, Eastern Regional Research Center, Wyndmoor, PA, USA; **M. P. Doyle,** University of Georgia Center of Food Safety, Griffin, GA, USA; **J. L. Kornacki,** Kornacki Microbiology Solutions, Inc., Madison, WI, USA (Eds)

The Microbiological Safety of Low Water Activity Foods and Spices

Contents
A. Introduction and Overview.- 1. The Microbiological Safety of Spices and Low Water Activity Foods: Correcting Historic Misassumptions.-2. Challenges in the Control of Foodborne Pathogens in Low-Water Activity Foods and Spices.- B. Pathogen Persistence and Control in Low aw Foods and Processing Plants.- 3. Adaptation of Pathogenic Microorganisms to Dry Conditions.- 4. Transcriptomic Responses of Salmonella Species to Desiccation and Low-Moisture Environments: Extending Our Knowledge of How Bacteria Cope with Low-Moisture Stress.- 5. Processing Plant Investigations: Practical Approaches to Determining Sources of Persistent Bacterial Strains in the Industrial Food Processing Environment.- 6. Dry Cleaning, Wet Cleaning and Alternatives to Processing Plant Hygiene and Sanitation.- C. Low aw Food Commodities of Interest.- 7. Spices.- 8. Dried Dairy-Based Products.- 9. Low Water Activity Meat Products.- 10. Dried, Ready-to-Eat Cereal Products.- 11. Powdered Infant Formula.- 12. Nuts and Nut Pastes.- 13. Flour and Meal.- 14. Chocolate and Confectionary.- 15. Salty Snack Foods.- 16. Pet Foods.- 17. Dried Teas and Herbs.- D. Product Testing.- 18. Regulatory Testing Guidelines and Recommendations.- 19. Methodological and Sampling Challenges to Testing Spices and Low aw Foods for the Presence of Foodborne Pathogens.- E. [...]

Fields of interest
Food Science; Chemistry/Food Science, general; Applied Microbiology

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2014. IV, 438 p. 35 illus., 29 illus. in color. (Food Microbiology and Food Safety / Practical Approaches) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-1-4939-2061-7

A. Hernández-Ramírez, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, N.L., Mexico; **I. Medina-Ramírez,** Universidad Autónoma de Aguascalientes, Ciudad Universitaria. C.P., Mexico (Eds)

Photocatalytic Semiconductors

Synthesis, Characterization, and Environmental Applications

Features
► Provides a broad perspective of semiconductors materials with photocatalytic properties ► Emphasizes the importance of the physicochemical and electrochemical characterization of photocatalytic materials ► Includes synthesis methods that produce photocatalytic materials with suitable properties for environmental applications

Contents
Semiconducting materials.- New visible light active semiconductors.- Synthesis methods for photocatalytic materials.- Physicochemical characterization of photocatalytic materials.- Electrochemical characterization of photocatalytic materials.- Semiconductor materials for photocatalytic oxidation of organic pollutants in wastewater.- Application of semiconductor photocatalytic materials for the removal or inorganic compounds from wastewater.- Photocatalytic materials in water disinfection.- Future and perpectives for photocatalytic materials in environmental photocatalysis.

Fields of interest
Catalysis; Characterization and Evaluation of Materials; Energy Technology

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 288 p. 90 illus., 43 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-10998-5

H. Isago, National Institute for Materials Science, Tsukuba, Japan

Optical Spectra of Phthalocyanines and Related Compounds

A Guide for Beginners

This book reviews the optical spectra of phthalocyanines and related compounds. The book also provides a theoretical background to distinguish their spectra from those of porphyrins as graphically as possible and without mathematicization. Phthalocyanines are tricky because their spectra behave like the sea-god Proteus: depending on conditions they sometimes can be very misleading.

Features
► Makes maximum use of figures and schemes and a minimum of verbal explanations ► Provides important information which is not described in academic papers ► Avoids mathematicization to the utmost possible in giving theoretical backgrounds and explanations

Contents
Introduction.- How Do We See a Color? What Are Dyes.- How Useful Are Phthalocyanines.- "Standard" Optical Absorption Spectra of Phthalocyanines and the Theoretical Background.- Normal Absorption Spectra of Phthalocyanines.- Models of Molecular Orbitals of Phthalocyanines.- Actual Absorption Spectra Observed in the Laboratory.- Effects of Metal and Peripheral Substituents.- Protonation .- Aggregation.- Oxidation and Reduction.- Optical Emission Spectra.- Fluorescence and Phosphorescence.- Mirror Image, Stokes Shift.- Effects of Impurity.- Effects of Aggregation.- Conclusion: Notes for Beginners

Fields of interest
Physical Chemistry; Optical and Electronic Materials; Spectroscopy and Microscopy

Target groups
Research

Product category
Monograph

Due February 2015

2015. 100 p. 45 illus., 15 illus. in color. (NIMS Monographs) Softcover
► **approx. *€ (D) 63,13 | € (A) 64,90 | sFr 79,00**
► **approx. € 59,00 | £53.99**
ISBN 978-4-431-55101-0

T. Ishii, Kagawa University, Takamatsu, Japan; **H. Wakita,** Fukuoka University, Johnan-ku, Fukuoka, Japan; **K. Ogasawara,** Kwansei Gakuin University, Hyogo, Japan; **Y.-S. Kim,** Korea Basic Science Institute, Suncheon, Korea, Republic of (South Korea) (Eds)

The DV-Xα Molecular-Orbital Calculation Method

Contents
The DV-Xa Molecular Orbital Calculation Method and Recent Development.- Algebraic Molecular Orbital Theory.- Analytical Expression of Molecular Integrals over Slater-Type Functions for Generating their Polynomial Expressions.- Atom-Atom Interaction Potential from the Gaussian Quadrature Method and Classical Molecular Dynamics.- Comparison of Contributions to Interatomic Interactions between Covalent and Ionic Bonds from Total Energy Calculations.- Total Energy Calculation by DV-Xa Method and Its Accuracy.- Energy Expression of the Chemical Bond between Atoms in Hydrides and Oxides and Its Application to Materials Design.- Comparative Study on Optical Properties of YPO4: Mn, Zr Phosphor by Experiment and Calculation.- Applications of DV-Xa Method for New Material Design in Dye-Sensitized Solar Cell.- Microscopic Approach to Water by Using the DV-Xa Method, and Some Innovative Applications.- Electronic Structure and Chemical Bonding of Li1.1Nb0.9O2-y as a Negative Electrode Material for Lithium Secondary Batteries.- Chemical Bonding, Point Defects and Positron Lifetimes in FeSi2 from First-Principles Calculations.- Structural Analysis of Al2TiO5 at Room Temperature and at 600 °C by DV-Xa Approach (II).- Wavelength of Luminescence and Energy Level Structure of Binuclear Copper(I) Complex.

Fields of interest
Theoretical and Computational Chemistry; Spectroscopy/Spectrometry; Metallic Materials

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XVII, 360 p. 189 illus., 57 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11184-1

P. Jonsson, Division of Sensor and EW Systems FOI—Swedish Defence Research Agency, Linköping, Sweden; **G. Olofsson,** FOI—Swedish Defence Research Agency, Umeå, Sweden; **T. Tjärnhage,** Division of CBRN Defence and Security FOI—Swedish Defence Research Agency, Umeå, Sweden (Eds)

Bioaerosol Detection Technologies

Features
► Describes not just aerosols, but direct detection of bioaerosols ► Provides comprehensive overview of the different physical techniques allowing detection and monitoring of bioaerosols ► Details a wide area of quasi-instantaneous surveillance systems

Contents
Introduction and Bioaerosol Detection Terminology.- History of the Early Biodetection Development.- Physical and Biological Properties of Bioaerosols.- Dispersion in the Atmosphere.- Aerosol Sampling and Transport.- Light Scattering and Particle Charge Techniques for the Detection of Biological Warfare Agents.- Bioaerosol Detection with Fluorescence Spectroscopy.- Bioaerosol Detection with Atomic Emission Spectroscopy.- Mass Spectrometry Techniques in the Analysis of Bioaerosols: Development and Advancement.- Detection of Bioaerosol by Raman Spectroscopy.- Biological Detection with Terahertz Spectrocopy.- Introduction to Stand-off Detection of Biological Warfare Agents.- Spectrally Resolved Laser-Induced Fluorescence Lidar Based Standoff Biodetection System.- Standoff Aerosol Size Determination Based on Multiple Field-of-View Elastic Scattering.- Trends in Biological Detection.

Fields of interest
Analytical Chemistry; Biotechnology; Monitoring/Environmental Analysis

Target groups
Research

Product category
Monograph

Available

2014. XVII, 330 p. 126 illus., 56 illus. in color. (Integrated Analytical Systems) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-1-4419-5581-4

S.-J. Park, Inha University, Incheon, Korea, Republic of (South Korea)

Carbon Fibers

This book contains eight chapters that discuss the manufacturing methods, surface treatment, composite interfaces, microstructure-property relationships with underlying fundamental physical and mechanical principles, and applications of carbon fibers and their composites. Recently, carbon-based materials have received much attention for their many potential applications. The carbon fibers are very strong, stiff, and lightweight, enabling the carbon materials to deliver improved performance in several applications such as aerospace, sports, automotive, wind energy, oil and gas, infrastructure, defense, and semiconductors. However, the use of carbon fibers in cost-sensitive, high-volume industrial applications is limited because of their relatively high costs.

Features
► Introduces the field of carbon fibers and composites, including technological and commercial applications ► Provides an insightful review to all the key techniques in the manufacturing and modification ► Of interest to the beginner as well as the senior researcher in material engineering, practicing process design, and chemical engineering

Contents
1 History and Structure of Carbon Fibers.- 2 Precursors and Manufacturing of Carbon Fibers.- 3 Matrices for Carbon Fiber Composites.- 4 Surface Treatment and Sizing of Carbon Fibers.- 5 Testing of Carbon Fibers and Their Composites.- 6 Manufacture of Carbon Fiber Composites.- 7 Recent Uses of Carbon Fibers.- 8 Carbon Fibers and their Composites.

Fields of interest
Polymer Sciences; Materials Science, general; Ceramics, Glass, Composites, Natural Materials

Target groups
Research

Product category
Monograph

F. Scholz, University of Greifswald, Greifswald, Germany; **U. Schröder,** Technical University Braunschweig, Braunschweig, Germany; **R. Gulaboski,** Goce Delcev University, Stip, Macedonia; **A. Doménech-Carbó,** University of Valencia, Burjassot, Spain

Electrochemistry of Immobilized Particles and Droplets

Experiments with Three-Phase Electrodes

This second edition of a successful and highly-accessed monograph has been extended by more than 100 pages. It includes an enlarged coverage of applications for materials characterization and analysis. Also a more detailed description of strategies for determining free energies of ion transfer between miscible liquids is provided. This is now possible with a "third-phase strategy" which the authors explain from theoretical and practical points of view. The book is still the only one detailing strategies for solid state electroanalysis.

Features
► Completely revised and considerably extended new edition ► Details strategies for solid-state electroanalysis ► Highlights three-phase electrochemistry and ion transfer between liquid phases

Contents
Earlier Developed Techniques.- Electrodes with Immobilized Particles and Droplets - Three-Phase Electrodes.- The Experiment.- Hyphenated Techniques.- Immobilized Particles.- Immobilized Droplets.- Bibliography.

Fields of interest
Electrochemistry; Characterization and Evaluation of Materials; Phase Transitions and Multiphase Systems

Target groups
Research

Product category
Monograph

Topics in Medicinal Chemistry

J. A. Lowe, Series editor: **P. R. Bernstein, A. Buschauer, G. I. Georg, U. Stilz, C. T. Supuran, A. K. Saxena**

Volume 13

S. Celanire, Reigner, France; **S. Poli,** Addex Therapeutics, Geneva, Switzerland (Eds)

Small Molecule Therapeutics for Schizophrenia

The topic-related series Topics in Medicinal Chemistry covers all relevant aspects of drug research, e.g.

Features
► Overview chapters introduce the newcomer to the topic covered ► Series covers hot topics of frontier research summarized by reputed scientists in the field ► Volumes are useful and of relevance for a long period of time

Contents
Second generation of antipsychotic and new development in DA and 5HT receptor ligands: what we have learned and where we are?.- GLYT1 inhibitors: from Hit to clinical candidates.- mGlu2 activators: from Hit to clinical candidates.- mGlu5 positive allosteric modulators (preclinical dev).- Muscarinic ACh and Nicotinic ACh receptor activators (preclinical and clinical dev).- Emergent targets (other receptors than the one mentioned above).

Fields of interest
Medicinal Chemistry; Receptors; Neurosciences

Target groups
Research

Product category
Monograph

Due October 2014

2014. XV, 558 p. 239 illus. (Springer Series in Materials Science, Volume 210) Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-94-017-9477-0

Due October 2014

2nd ed. 2014. X, 390 p. 230 illus., 10 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10842-1

Due October 2014

2014. XX, 200 p. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11501-6

P. Zelisko, Brock University, St. Catharines, ON, Canada (Ed)

Bio-Inspired Silicon-Based Materials

The contributed volume addresses a wide range of topics including, but not limited to, biotechnology, synthetic chemistry, polymer chemistry and materials chemistry. The book will serve as a specialized review of the field of biologically inspired silicon-based structures. Researchers studying biologically inspired silicon materials chemistry will find this volume invaluable.

Features

► Presents a comprehensive review of recent and important research in this expanding area ► Exclusively features bio-inspired silicon materials chemistry ► Contains contributions from experts and pioneers who are active in silicon biotechnology and silicon biomaterials

Contents

1 Silicon in a Biological Environment.- 2 The Role of Silicates in the Synthesis of Sugars Under Prebiotic Conditions.- 3 Protease-Mediated Hydrolysis and Condensation of Tetra- and Trialkoxysilanes.- 4 Bioinspired Silica for Enzyme Immobilisation: A Comparison with Traditional Methods.- 5 On The Immobilization of Candida Antarctica Lipase B onto Surface Modified Porous Silica Gel Particles.- 6 Enzymatic Modification and Polymerization of Siloxane-Containing Materials.- 7 Design and Thermal Properties of Interpenetrating and Intercrosslinked Biosilicate Materials.- 8 Bioactive Amino Acids, Peptides and Peptidomimetics Containing Silicon.

Fields of interest

Inorganic Chemistry; Polymer Sciences; Biochemical Engineering

Target groups

Graduate

Product category

Monograph

Due February 2015

2014. Approx. 450 p. 73 illus., 37 illus. in color. (Advances in Silicon Science, Volume 5) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-94-017-9438-1

K. Aihara, The University of Tokyo, Tokyo, Japan; **J.-i. Imura,** Tokyo Institute of Technology, Tokyo, Japan; **T. Ueta,** Tokushima University, Tokushima, Japan (Eds)

Analysis and Control of Complex Dynamical Systems

Robust Bifurcation, Dynamic Attractors, and Network Complexity

Features
► The first book that focuses on research topics integrated by two fields of complex dynamical systems theory and control theory ► Contributes to a better understanding of analysis and control synthesis of complex systems ► The outcome of the "Funding Program for World-Leading Innovative R&D on Science and Technology (FIRST Program)" initiated by Japan's Council for Science and Technology Policy (CSTP) ► Written by leading and up-and-coming researchers in the field of dynamical systems theory and control theory

Contents
PART I Robust Bifurcation and Control.- Potential bifurcation points for uncertain nonlinear systems.- Robust bifurcation analysis.- Super-robust control.- Suppression of bifurcations.- PART II Dynamic Attractor and Control.- Triangle folding map.- Characterization of quasi-periodic orbits.- Stabilization control of quasi-periodic orbits.- Chaos control with predicted future states.- Ultra-discretization of nonlinear control systems with symmetry.- Feedback control of spatial patterns in reaction-diffusion systems.- Optimal control of unstabilizable systems.- PART III Complex Networks and Control.- Model reduction and control of complex networks.- Structured identification of complex networks.

Fields of interest
Vibration, Dynamical Systems, Control; Complexity; Complex Networks

Target groups
Research

Product category
Monograph

Due February 2015

2015. 400 p. 70 illus., 20 illus. in color. (Mathematics for Industry, Volume 7) Hardcover
► approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► approx. € 129,99 | £117.00
ISBN 978-4-431-55012-9

C. Al-Ekabi, ESPI - European Space Policy Institute, Vienna, Austria (Ed)

European Autonomy in Space

The volume provides analyses and evaluations of the continuing importance of Europe's autonomy in its access to space as a key driver in the development of European space capabilities. From a detailed historical analysis of some of the pitfalls of dependence in the space industry, experts analyze the full range of current European space capabilities and identify areas where autonomy is both possible and required, even in a situation of severe budgetary constraints. The contributions present a comprehensive overview of European efforts in a broad range of areas including energy, culture, science, and security; access to space, space applications, human spaceflight, security and space situational awareness, and strategic issues. They make a cogent strategic and economic case for policy makers to continue to bear in mind the importance of autonomous space capabilities, even in an interdependent globalized world.

Features
► Reflects Europe's development within the space industry with autonomy as a driving factor ► Comprehensive overview of European efforts in areas such as energy, culture, science and security ► Shows importance of autonomous space capabilities even in an interdependent globalized world

Fields of interest
Aerospace Technology and Astronautics; Political Science, general; Law of the Sea, Air and Outer Space

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 180 p. 6 illus., 5 illus. in color. (Studies in Space Policy) Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-319-11109-4

C. Al-Ekabi, B. Baranes, P. Hulsroj, A. Lahcen, ESPI - European Space Policy Institute, Vienna, Austria (Eds)

Yearbook on Space Policy 2012/2013

Space in a Changing World

The Yearbook on Space Policy is the reference publication analyzing space policy developments. Each year it presents issues and trends in space policy and the space sector as a whole. Its scope is global and its perspective is European. The Yearbook also links space policy with other policy areas. It highlights specific events and issues, and provides useful insights, data and information on space activities. The Yearbook on Space Policy is edited by the European Space Policy Institute (ESPI) based in Vienna, Austria. It combines in-house research and contributions of members of the European Space Policy Research and Academic Network (ESPRAN), coordinated by ESPI.

Features
► Collection of unique facts and figures for the year ► Perspective on selected issues by international experts in the fields ► Summary and analysis of the main policy issues of the year

Contents
European space activities in the global context. - Global trends and their impact on space. - India and other maturing Asian space enthusiasts. - The globalisation of space activities. - New space for security. - The impact of China's rise in space. - Russia: Space exploration and development prospects. - Emerging space powers of Latin America: Argentina and Brazil. - The future regulation of outer space.- Chronology: June 2012-December 2013.

Fields of interest
Aerospace Technology and Astronautics; Political Science, general; Law of the Sea, Air and Outer Space

Target groups
Research

Product category
Monograph

SpringerWienNewYork

Due February 2015

2015. 360 p. (Yearbook on Space Policy) Hardcover
► approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► approx. € 129,99 | £117.00
ISBN 978-3-7091-1826-9

K. T. Atanassov, Bulgarian Academy of Sciences, Institute of Biophysics and Biomedical Engineering, Sofia, Bulgaria

Index Matrices: Towards an Augmented Matrix Calculus

This book presents the very concept of an index matrix and its related augmented matrix calculus in a comprehensive form. It mostly illustrates the exposition with examples related to the generalized nets and intuitionistic fuzzy sets which are examples of an extremely wide array of possible application areas. The present book contains the basic results of the author over index matrices and some of its open problems with the aim to stimulating more researchers to start working in this area.

Features
► Presents the very concept of an index matrix and its related augmented matrix calculus in a comprehensive form ► Illustrated with examples related to the generalized nets and intuitionistic fuzzy sets ► Contains original research and basic results of index matrices and open problems

Contents
Index matrices: definitions, operations, relations.- Intuitionistic Fuzzy IMs.- Extended index matrices.- Temporal IFIMs.- Index matrices with function-type of elements.- Three dimensional IMs.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics); Mathematical Models of Cognitive Processes and Neural Networks

Target groups
Research

Product category
Monograph

Due September 2014

2014. XII, 110 p. 20 illus. (Studies in Computational Intelligence, Volume 573) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-10944-2

A. T. Azar, Benha University, Benha, Egypt; **Q. Zhu,** University of the West of England, Bristol, UK (Eds)

Advances and Applications in Sliding Mode Control systems

Contents
Adaptive Sliding mode control of the Furuta pendulum.- Optimal Sliding and Decoupled Sliding Mode Tracking Control by Multi-objective Particle Swarm Optimization and Genetic Algorithms.- Robust Control of Robot Arms via Quasi Sliding Modes and Neural Networks.- A robust adaptive self-tuning sliding mode control for a hybrid actuator in camless internal combustion engines.- Sliding mode control of class of linear uncertain saturated systems.- Sliding mode control scheme of variable speed wind energy conversion system based on the PMSG for utility network connection.- Super-twisting Air/Fuel ratio control for spark ignition engines.- Robust Output Feedback Stabilization of a Magnetic Levitation System Using Higher Order Sliding Mode Control Strategy.- Design and Application of Discrete Sliding Mode Controller for TITO Process Control Systems.- Dynamic fuzzy sliding mode control of underwater vehicles.- An Indirect Adaptive Fuzzy Sliding Mode Power System Stabilizer for Single and Multi-Machine Power Systems.- Higher Order Sliding Mode Control of Uncertain Robot Manipulators.- Generalized H2 sliding mode control for a class of (TS) fuzzy descriptor systems with time-varying delay and nonlinear perturbations.- Rigid spacecraft fault-tolerant control using adaptive fast terminal sliding mode.- Sliding Modes for Fault Tolerant Control.- Transient Stability Enhancement of Power Systems using Observer-based Sliding Mode Control.- Switching Function Optimization of Sliding Mode Control to a Photovoltaic Pumping System. [...]

Fields of interest
Computational Intelligence; Control; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due October 2014

2015. XIV, 628 p. 280 illus. (Studies in Computational Intelligence, Volume 576) Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-3-319-11172-8

A. T. Azar, Benha University, Benha, Egypt; **S. Vaidyanathan,** Vel Tech University, Chennai, India (Eds)

Computational Intelligence Applications in Modeling and Control

The development of computational intelligence (CI) systems was inspired by observable and imitable aspects of intelligent activity of human being and nature. The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing, mutually supportive factors. Developed theories of computational intelligence were quickly applied in many fields of engineering, data analysis, forecasting, biomedicine and others. They are used in images and sounds processing and identifying, signals processing, multidimensional data visualization, steering of objects, analysis of lexicographic data, requesting systems in banking, diagnostic systems, expert systems and many other practical implementations.

Features
► Presents trends and applications in modeling and control of computational intelligence ► Selected collection of contributions from International Conference On Control, Engineering & Information Technology (CEIT'14), March 22-25, 2014, Sousse, Tunisia ► Written by experts in the field

Contents
Chaos Modeling, Control and Synchronization.- Control Systems and Applications.- Intelligent Control Applications.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due October 2014

2015. XV, 911 p. 318 illus., 33 illus. in color. (Studies in Computational Intelligence, Volume 575) Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-3-319-11016-5

Q. Bai, Auckland University of Technology, Auckland, New Zealand; **F. Ren,** University of Wollongong, Wollongong, NSW, Australia; **M. Zhang,** The University of Wollongong, Wollongong, NSW, Australia; **T. Ito,** Nagoya Institute of Technology, Nagoya, Japan; **X. Tang,** Chinese Academy of Science, Beijing, China (Eds)

Smart Modeling and Simulation for Complex Systems

Practice and Theory

Contents

HIPRank: Ranking Nodes by Influence Propagation based on Authority and Hub.- Benefits of Generalised Microsimulation.- From Global Polarization to Local Social Mechanisms: A Study Based on ABM and Empirical Data Analysis.- Decentralised Task Allocation under Space, Time and Communication Constraints in Disaster Domains.- Describing and Evaluating Assistance using APDL.- A Relaxation Strategy with Fuzzy Constraints for Supplier Selection in a Power Market.- Idea Discovery: A Context-Awareness Dynamic System Approach for Computational Creativity.- Hierarchical Scoring Rule Based Smart Dynamic Electricity Pricing Scheme.- Evaluation of Route Assignment Method with Anticipatory Stigmergy under Distributed Processing Environment.

Fields of interest

Complexity; Artificial Intelligence (incl. Robotics); Computational Intelligence

Target groups

Research

Product category

Monograph

Due November 2014

2015. X, 160 p. 53 illus., 38 illus. in color. (Studies in Computational Intelligence, Volume 564) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-4-431-55208-6

S. Barkeshli, Space Systems/Loral, Palo Alto, CA, USA; **S. Khorasani,** Sharif University of Technology, Tehran, Iran

Advanced Electromagnetics and Scattering Theory

This book present the lecture notes used in two courses that the late Professor Kasra Barkeshli had offered at Sharif University of Technology, namely, Advanced Electromagnetics and Scattering Theory. The prerequisite for the sequence is vector calculus and electromagnetic fields and waves. Some familiarity with Green's functions and integral equations is desirable but not necessary. The book provides a brief but concise introduction to classical topics in the field. It is divided into three parts including annexes. Part I covers principle of electromagnetic theory. The discussion starts with a review of the Maxwell's equations in differential and integral forms and basic boundary conditions.

Features

► Offers one of the most comprehensive monographs ever written with the subject of electromagnetic radiation and scattering ► Enables the understanding of fundamentals without many prerequisites ► Includes a fundamental introduction to numerical methods

Contents

Part I Electromagnetic Theory: Maxwell's Equations.- Radiation.- Fundamental Theorems.- Wave Harmonics And Guided Waves.- Part II Scattering Theory: Radar.- Canonical Scattering Problems.- Approximate Methods.- Integral Equation Method.- Method of Moments.- Periodic Structures.- Inverse Scattering.- Appendices: Vector Analysis.- Vector Calculus.- Bessel Functions.

Fields of interest

Microwaves, RF and Optical Engineering; Optics and Electrodynamics

Target groups

Research

Product category

Monograph

Due November 2014

2015. XIII, 347 p. 135 illus., 6 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11546-7

S. Baruah, The University of North Carolina, Chapel Hill, NC, USA; **M. Bertogna,** Università di Modena, Modena, Italy; **G. Buttazzo,** Scuola Superiore Sant'Anna TeCIP Institute, Pisa, Italy

Multiprocessor Scheduling for Hard-Real-Time Systems

This book provides a comprehensive overview of both theoretical and pragmatic aspects of resource-allocation and scheduling in multiprocessor and multicore hard-real-time systems. The authors derive new, abstract models of real-time tasks that capture accurately the salient features of real application systems that are to be implemented on multiprocessor platforms and identify rules for mapping application systems onto the most appropriate models.

Features

► Provides the first, single-source reference to multiprocessor scheduling for hard-real-time systems ► Equips readers with systematic categorization of multiprocessor scheduling methods ► Reveals new run-time multiprocessor scheduling algorithms, which are demonstrably better than those currently used, both in terms of run-time efficiency and tractability of off-line analysis

Contents

Introduction.- Background and Models.- Optimal global scheduling on identical machines.- FJP/FTP global scheduling on identical machines.- Partitioned scheduling on identical machines.- Semi-partitioned/ clustered scheduling on identical machines.- Scheduling on uniform and unrelated machines.- Resource-sharing protocols.- Multiprocessor servers.- Other (not yet mature) topics.

Fields of interest

Circuits and Systems; Processor Architectures; Electronics and Microelectronics, Instrumentation

Target groups

Research

Product category

Monograph

Due February 2015

2015. 300 p. 150 illus. (Embedded Systems) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-08695-8

R. M. Bateman, Lubbock, TX, USA

Cased-Hole Log Analysis and Reservoir Performance Monitoring

This book addresses vital issues, such as the evaluation of shale gas reservoirs and their production. Topics include the cased-hole logging environment, reservoir fluid properties; flow regimes; temperature, noise, cement bond, and pulsed neutron logging; and casing inspection. Production logging charts and tables are included in the appendices. The work serves as a comprehensive reference for production engineers with upstream E&P companies, well logging service company employees, university students, and petroleum industry training professionals.

Features
► Provides methods of conveying production logging tools along horizontal well segments as well as measurements of formation electrical resistivity through casing ► Covers new information on fluid flow characteristics in inclined pipe and provides new and improved nuclear tool measurements in cased wells ► Includes updates on cased-hole wireline formation testing

Contents
Introduction.- Cased-Hole Logging Environment.- Reservoir Fluid Properties.- Flow Regimes.- Flowmeters.- Radioactive Tracer Logs.- Fluid Identification.- Temperature Logging.- Noise Logging.- Interpretation.- Formation Evaluation Through Casing.- Cement Bond Logging.- Casing Inspection.- Well and Field Monitoring.- Appendixes: Production Logging Charts and Tables.- General Bibliography.- Index.

Fields of interest
Geoengineering, Foundations, Hydraulics; Fossil Fuels (incl. Carbon Capture); Geophysics and Environmental Physics

Target groups
Research

Product category
Professional book

Due November 2014

2nd ed. 2015. XVI, 424 p. 216 illus., 71 illus. in color.
Hardcover
► ***€ (D) 112,34 | € (A) 115,49 | sFr 140,00**
► **€ 104,99 | £94.50**
ISBN 978-1-4939-2067-9

D. Black, H. Talesara, XtremeEDA USA Corporation, Austin, TX, USA

TLM 2.0: From the Ground Up

A Pragmatic Approach to Learning and Applying the SystemC TLM 2.0 Standard

Following the popular second edition of SystemC: From the Ground Up, this book continues in providing accessible information on how to create and use TLM 2.0 models in SystemC. Concepts are carefully described, followed by syntax and application examples. Exercises at the end of each chapter will give the reader practice material.

Features
► Uses a straightforward approach designed for practitioners, including numerous examples and exercises, as well as common problems ("gotchas") that may be encountered by novices ► Provides pragmatic information on how to create and use TLM 2.0 models ► Begins each topic with a use-case or scenario that needs solving, then introduces necessary concepts and provides a solution in the form of worked out code ► Downloadable examples will also be provided from a website

Contents
Concepts.- Connectivity.- Standardizing Transactions.- Coding for speed – LT (Loosely Timed).- Coding for accuracy – AT(Approximately Timed).- A Small System Example.- Debugging TLM.- Extracting Data with TLM 2.0.- Dangers of TLM 2.0.- Rules of TLM 2.0.

Fields of interest
Circuits and Systems; Processor Architectures

Target groups
Professional/practitioner

Product category
Professional book

Due January 2015

2012. 250p. 75 illus.. Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 137,00**
► **approx. € 99,95 | £86.50**
ISBN 978-1-4419-8791-4

W. Borutzky, Bonn-Rhein-Sieg University of Applied Sciences, Sankt Augustin, Germany

Model-based Fault Detection in Hybrid Systems Using Bond Graphs

This book presents bond graph model-based fault detection with a focus on hybrid system models. The book addresses model design, simulation, control and model-based fault diagnosis of multi-disciplinary engineering systems. The text beings with a brief survey of the state-of-the-art, then focuses on hybrid systems. The author then uses different bond graph approaches throughout the text and provides case studies.

Features
► Examines how bond graph model-based fault detection in hybrid systems can be used in engineering ► Includes schematics and bond graph drawings along with the display of simulation runs ► Discusses how bond graph model-based fault detection is related to modeling, simulation, control and fault diagnosis of mechatronic systems

Contents
Introduction.- Bond Graph Representations of Hybrid System Models.- Structural Control Properties of Switched LTI Systems.- Bond Graph Model-based Quantitative FDI in Hybrid Systems.- Parameter Uncertainties.- Isolation of Multiple Parametric Faults from a Hybrid Model.- ARR based System Mode Identification.- Applications.- Failure Prognosis for Hybrid Systems Based on ARR Residuals.- Overall Conclusion and Discussion.

Fields of interest
Robotics and Automation; Simulation and Modeling; Communications Engineering, Networks

Target groups
Research

Product category
Monograph

Due November 2014

2015. XI, 305 p. 172 illus., 100 illus. in color.
Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11859-8

V. N. Burkov, D. A. Novikov, A. V. Shchepkin, Russian Academy of Sciences, Moscow, Russia

Control Mechanisms for Ecological-Economic Systems

This monograph presents and analyzes the optimization, game-theoretic and simulation models of control mechanisms for ecological-economic systems. It is devoted to integrated assessment mechanisms for total risks and losses, penalty mechanisms, risk payment mechanisms, financing and costs compensation mechanisms for risk level reduction, sales mechanisms for risk level quotas, audit mechanisms, mechanisms for expected losses reduction, economic motivation mechanisms, optimization mechanisms for regional environmental (risk level reduction) programs, and mechanisms for authorities' interests coordination.

Features
► Presents recent research on control mechanisms for ecological-economic systems ► Suggests integrated assessment mechanisms for total risks and losses, penalty mechanisms, risk payment mechanisms and many other ► Valuable for experts and students in mathematical modeling and control of ecological economic, socioeconomic and organizational systems

Contents
Risk Level Control In Ecological-Economic Systems.- Control Mechanisms at The Level of Industrial Enterprises.- Control Mechanisms at The Level of Regional Authorities.- Simulation Models for Control Mechanisms in Ecological-Economic Systems.

Fields of interest
Control; Computational Intelligence; Environmental Economics

Target groups
Research

Product category
Monograph

Y. Cao, P. Leroux, KU Leuven, Heverlee, Belgium; **M. Steyaert,** K.U. Leuven, Heverlee, Belgium

Radiation-Tolerant Delta-Sigma Time-to-Digital Converters

This book focuses on the design of a Mega-Gray (a standard unit of total ionizing radiation) radiation-tolerant ps-resolution time-to-digital converter (TDC) for a light detection and ranging (LIDAR) system used in a gamma-radiation environment. Several radiation-hardened-by-design (RHBD) techniques are demonstrated throughout the design of the TDC and other circuit techniques to improve the TDC's resolution in a harsh environment are also investigated. Readers can learn from scratch how to design a radiation-tolerant IC.

Features
► Discusses important aspects of radiation-tolerant analog IC design, including realistic applications and radiation effects on ICs ► Demonstrates radiation-hardened-by-design techniques through a design-test-radiation assessment practice ► Describes a new type of Time-to-Digital (TDC) converter designed for radiation-tolerant application ► Explains the design and measurement of all functional blocks (e.g., bandgap reference, relaxation oscillator) in the TDC

Contents
Introduction.- Background on Time-to-Digital Converters.- Radiation-Hardened-by-Design.- The MASH ΔΣ Time-to-Digital Converter.- Radiation Hardened Bandgap References.- Low-Jitter Relaxation Oscillators.- Conclusions.

Fields of interest
Circuits and Systems; Electronic Circuits and Devices; Electronics and Microelectronics, Instrumentation

Target groups
Research

Product category
Monograph

O. Castillo, P. Melin, Tijuana Institute of Technology, Tijuana, Mexico (Eds)

Fuzzy Logic Augmentation of Nature-Inspired Optimization Metaheuristics

Theory and Applications

This book describes recent advances on fuzzy logic augmentation of nature-inspired optimization metaheuristics and their application in areas such as intelligent control and robotics, pattern recognition, time series prediction and optimization of complex problems. The book is organized in two main parts, which contain a group of papers around a similar subject. The first part consists of papers with the main theme of theoretical aspects of fuzzy logic augmentation of nature-inspired optimization metaheuristics, which basically consists of papers that propose new optimization algorithms enhanced using fuzzy systems.

Features
► Describes recent advances on fuzzy logic augmentation of nature-inspired optimization metaheuristics ► Includes various application in areas such as intelligent control and robotics, pattern recognition, time series prediction and optimization of complex problems ► The book is organized in two main parts focusing on theoretical aspects of fuzzy logic augmentation of nature-inspired optimization metaheuristics (part 1) , as well as application of optimization algorithms (part 2)

Contents
Theory.- Applications.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due November 2014

2015. XII, 194 p. (Studies in Systems, Decision and Control, Volume 10) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-10914-5

Due February 2015

2015. 160 p. 100 illus. (Analog Circuits and Signal Processing) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 127,50**
► **approx. € 99,99 | £86.50**
ISBN 978-3-319-11841-3

Due October 2014

2015. VII, 234 p. 98 illus., 42 illus. in color. (Studies in Computational Intelligence, Volume 574) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-10959-6

Q. Cui, TriQuint Semiconductor, Chelmsford, MA, USA; **J. J. Liou,** University of Central Florida, Orlando, FL, USA; **J.-J. Hajjar, J. Salcedo, Y. Zhou, P. Srivatsan,** Analog Devices Inc., Wilmington, MA, USA

On-Chip ESD Protection for RF/ Microwave Integrated Circuits

This book enables readers to design effective ESD protection solutions for all mainstream RF fabrication processes (GaAs pHEMT, SiGe HBT, CMOS). The new techniques introduced by the authors have much higher protection levels and much lower parasitic effects than those of existing ESD protection devices. The authors describe in detail the ESD phenomenon, as well as ESD protection fundamentals, standards, test equipment, and basic design strategies. Readers will benefit from realistic case studies of ESD protection for RFICs and will learn to increase significantly modern RFICs' ESD safety level, while maximizing RF performance.

Features
► Describes in detail the ESD phenomenon, as well as ESD protection fundamentals, standards, test equipment, and basic design strategies ► Enables readers to design effective ESD protection solutions for all mainstream RF fabrication processes (GaAs pHEMT, SiGe HBT, CMOS) ► Includes realistic case studies of ESD protection for RFICs that resulted in significantly increased ESD safety level, while maximizing RF performance

Fields of interest
Circuits and Systems; Electronic Circuits and Devices; Electronics and Microelectronics, Instrumentation

Target groups
Professional/practitioner

Product category
Professional book

Due March 2015

2015. 200 p. 100 illus. Hardcover
► **approx. *€ (D) 96,29 | € (A) 98,99 | sFr 117,50**
► **approx. € 89,99 | £79.50**
ISBN 978-3-319-10818-6

M. Deakin, Edinburgh Napier University Merchiston Campus, Edinburgh, UK; **F. Campbell, A. Reid,** Edinburgh Napier University, Edinburgh, UK; **J. Orsinger,** Munich Technical University, Munich, Germany

The mass-retrofitting of an energy efficient-low carbon zone in the UK

Maximizing reader insights into the strategic value of mass retrofits in the residential property sector through a detailed case study analysis of the 'Hackbridge project', this book uses this development to broaden understanding of how planners may perform urban regeneration in accordance with a centralized plan.

Features
► Demonstrates how urban morphology matters in regards to lowering energy consumption and carbon emissions through the planning, (re)development, design, construction, use and occupation of buildings ► Critiques the current state-of-the-art in urban morphology, the geometry of design typologies, construction systems and occupational behaviours ► Utilizes the case-study of the Hackbridge project in the London Borough of Sutton as an example of a mass retrofit proposal designed as a sustainable suburb with district centres, neighbourhoods and buildings, laid out and contextualised as an energy efficient-low carbon zone

Fields of interest
Building Construction; Renewable and Green Energy; Sustainable Development

Target groups
Research

Product category
Brief

Due February 2015

2014. 85 p. 30 illus., 10 illus. in color. (SpringerBriefs in Energy) Hardcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-1-4471-6620-7

L. Debnath, University of Texas, Pan American, Edinburg, TX, USA; **F. Shah,** University of Kashmir, Anantnag, India

Wavelet Transforms and Their Applications

This textbook is an introduction to wavelet transforms and accessible to a larger audience with diverse backgrounds and interests in mathematics, science, and engineering. Emphasis is placed on the logical development of fundamental ideas and systematic treatment of wavelet analysis and its applications to a wide variety of problems as encountered in various interdisciplinary areas.

Features
► Includes exercises at the end of each chapter and provides a section of selected answers to exercises ► Differs from many textbooks due to major emphasis placed on numerous topics and systematic development of underlying theories ► Provides an introduction to wavelet transforms while being accessible to a broad audience ► New revised chapters on Extensions of Multiresolution Analysis, New Lawds's Harmonic Wavelets, and Applications of Wavelet Transforms

Contents
Brief Historical Introduction.- Hilbert Spaces and Orthonormal Systems.- Fourier Transformations and Their Applictions.- The Gabor Transform and Time-Frequency Signal Analysis.- The Wigner-Ville Distribution and Time-Frequency Signal Analysis.- The Wavelet Transforms and Their Basic Properties.- Multiresolution Analysis and Construction of Wavelets.- Extensions of Multiresolution Analysis.- Newland's Harmonic Wavelets.- Wavelet Transform Analysis of Turbulence.

Fields of interest
Signal,Image and Speech Processing; Functional Analysis; Applications of Mathematics

Target groups
Upper undergraduate

Product category
Undergraduate textbook

Due November 2014

2nd ed. 2015. X, 496 p. 69 illus. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-0-8176-8417-4

R. Dekkers, University of Glasgow, Glasgow, UK

Applied Systems Theory

Offering an up-to-date account of systems theories and its applications, this book provides a different way of resolving problems and addressing challenges in a swift and practical way, without losing overview and not having a grip on the details. From this perspective, it offers a different way of thinking in order to incorporate different perspectives and to consider multiple aspects of any given problem. Drawing examples from a wide range of disciplines, it also presents worked cases to illustrate the principles. The multidisciplinary perspective and the formal approach to modelling of systems and processes of 'Applied Systems Theory' makes it suitable for managers, engineers, students, researchers, academics and professionals from a wide range of disciplines; they can use this 'toolbox' for describing, analysing and designing biological, engineering and organisational systems as well as getting a better understanding of societal problems.

Features
► Presents a formal and consistent modelling approach based on system theories that is applicable to a wide range of systems ► Draws on examples from a wide range of applications and elucidates the principles with illustrations and worked examples ► Offers a unique overview of basic concepts, as well as advances in research applied to a wide variety of settings

Contents
Introduction.- Basic Concepts of Applied Systems Theory.- System Approaches.- Processes.- Control of Processes.- Steady-State Model.- Autopoeitic Systems.- Complex Adaptive Systems.- Breakthrough Model.- Applications.

Fields of interest
Industrial and Production Engineering; Production/Logistics/Supply Chain Management; Mathematical Modeling and Industrial Mathematics

Target groups
Professional/practitioner

Product category
Professional book

Due September 2014

2015. XXXII, 257 p. 78 illus. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-10845-2

R. Dhiman, R. Chandel, National Institute of Technology, Hamirpur, India

Compact Models and Performance Investigations for Sub-threshold Interconnects

The book provides a detailed analysis of issues related to sub-threshold interconnect performance from the perspective of analytical approach and design techniques. Particular emphasis is laid on the performance analysis of coupling noise and variability issues in sub-threshold domain to develop efficient compact models. The proposed analytical approach gives physical insight of the parameters affecting the transient behavior of coupled interconnects. Remedial design techniques are also suggested to mitigate the effect of coupling noise. The effects of wire width, spacing between the wires, wire length are thoroughly investigated.

Features
► Provides compact analytical approach for sub-threshold electrical on-chip interconnects ► Includes comprehensive analysis of coupling noise for sub-threshold circuits ► Investigates variability issues in sub-threshold domain to develop efficient compact models

Contents
Introduction.- Design Challenges in Sub-threshold Interconnect Circuits.- Sub-threshold Interconnect Circuit Design.- Characterization of Dynamic Crosstalk Effect In Sub-threshold Interconnects.- Sub-threshold Interconnect Noise Analysis.- Variability in Sub-threshold Interconnects.

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Power Electronics, Electrical Machines and Networks

Target groups
Research

Product category
Monograph

Due January 2015

2014. 200 p. 45 illus. (Energy Systems in Electrical Engineering) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-81-322-2131-9

Y. Ebihara, Kyoto University, Kyoto, Japan;
D. Peaucelle, D. Arzelier, National Centre for Scientific Research, Toulouse, France

S-Variable Approach to LMI-Based Robust Control

This book shows how the use of S-variables (SVs) in enhancing the range of problems that can be addressed with the already-versatile linear matrix inequality (LMI) approach to control can, in many cases, be put on a more unified, methodical footing. Beginning with the fundamentals of the SV approach, the text shows how the basic idea can be used for each problem (and when it should not be employed at all). The specific adaptations of the method necessitated by each problem are also detailed.

Features
► Detailed account of the slack-variable approach to the increasingly popular study of linear-matrix-inequality-based control ► Easily understandable exposition provides an entry path for non-experts to the latest control theory ► Explicit description of LMI conditions enables readers to code them into programs in order to realise their effectiveness ► Practical examples exemplify the guidelines on how to put theoretical LMI results into practice

Contents
Introduction.- Robust Performance Analysis of LTI Systems.- Descriptor Case and System Augmentation.- Robust State-Feedback Synthesis for LTI Systems.- Multi-Objective Controller Synthesis for LTI Systems.- Static Output-Feedback Synthesis.- Robust Performance Analysis of Discrete-Time Periodic Systems.- Robust Controller Synthesis of Periodic Discrete-Time Systems.

Fields of interest
Control; Systems Theory, Control; Optimization

Target groups
Research

Product category
Monograph

Due October 2014

2015. XVII, 246 p. 38 illus., 34 illus. in color. (Communications and Control Engineering) Hardcover
► ***€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **€ 84,99 | £76.50**
ISBN 978-1-4471-6605-4

A. A. Elahi, Southern Connecticut State University, New Haven, CT, USA; **B. T. Arjeski,** Southern Connecticut State University, Branford, CT, USA

ARM Assembly Language with Hardware Experiments

This book provides a hands-on approach to learning ARM assembly language with the use of a TI microcontroller. The book starts with an introduction to computer architecture and then discusses number systems and digital logic.

Features
► Introduces number systems and signal transmission methods ► Reviews logic gates, registers, multiplexers, decoders and memory ► Provides an overview and examples of ARM instruction set ► Uses using Keil development tools for writing and debugging ARM assembly language Programs ► Hardware experiments using a Mbed NXP LPC1768 microcontroller; including General Purpose Input/Output (GPIO) configuration, real time clock configuration, binary input to 7-segment display, creating a voltmeter with an analog-to-digital converter, and using a digital-to-analog converter

Contents
Number Systems and Data Communication.- Logic Gates and Introduction to Computer Architecture.- ARM Instructions Part I.- ARM Instructions Part II.- ARM Assembly Language Programming Using Keil Development Tools.- ARM Cortex-M3 Processor and MBED NXP LPC1768.- Lab Experiments.

Fields of interest
Circuits and Systems; Computer Communication Networks; Communications Engineering, Networks

Target groups
Research

Product category
Monograph

Due December 2014

2015. XI, 183 p. 113 illus., 57 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11703-4

I. Emri, University of Ljubljana, Ljubljana, Slovenia; **A. Voloshin,** Lehigh University, Bethlehem, PA, USA

Statics

Learning from Engineering Examples

This textbook introduces and explains the basic concepts on which Statics is based utilizing real engineering examples. The authors emphasize the learning process by showing a real problem, analyzing it, simplifying it, and developing a way to solve it. This feature teaches students intuitive thinking in solving real engineering problems using fundamental Newton's laws.

Features
► Stresses representation of physical reality ways that allow students to solve problems and obtain meaningful results ► Emphasizes identification of important features of the structure that should be included in a model and which features may be omitted ► Facilitates students' understanding and mastery of the "flow of thinking" practiced by professional engineers

Contents
The Laws of Nature.- Forms of Loads and Supports.- Resultant and Equilibrium of Forces Acting at a Point.- Equilibrium of Rigid Body.- Centroids.- From the Rigid Body to Structures.- Trusses.- Beams.- Ropes.- Mixed Structures.- Friction.

Fields of interest
Continuum Mechanics and Mechanics of Materials; Structural Mechanics

Target groups
Lower undergraduate

Product category
Undergraduate textbook

Due March 2015

2015. 350 p. 600 illus. Hardcover
► **approx. *€ (D) 80,20 | € (A) 82,45 | sFr 98,00**
► **approx. € 74,95 | £66.99**
ISBN 978-1-4939-2100-3

S. Faruque, University of North Dakota, City, ND, USA

Radio Frequency Propagation Made Easy

This book introduces Radio Frequency Propagation to a broad audience. The author blends theory and practice to bring readers up-to-date in key concepts, underlying principles and practical applications of wireless communications. The presentation is designed to be easily accessible, minimizing mathematics and maximizing visuals.

Features
► Provides a concise and easily accessible introduction to Radio Frequency Propagation ► Brings readers up to date in key concepts, underlying principles and practical applications of wireless communications ► Blends theory and practice in a presentation designed to make difficult topics easy to understand

Contents
Introduction to Radio Frequency.- Free Space Propagation.- Multipath Propagation.- Empirical Propagation Models.- Statistical Analysis In RF Engineering.- Radio Frequency Coverage: The Cell.- Global RF & CO2 Pollution: Transition to Green Cellular Technology.

Fields of interest
Communications Engineering, Networks; Computer Communication Networks; Electronics and Microelectronics, Instrumentation

Target groups
Professional/practitioner

Product category
Brief

Due November 2014

2014. X, 115 p. 73 illus., 49 illus. in color. (SpringerBriefs in Electrical and Computer Engineering) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11393-7

M. N. Favorskaya, Siberian State Aerospace University, Krasnoyarsk, Russia; **L. C. Jain,** University of Canberra, Canberra, Australia (Eds)

Computer Vision in Control Systems-2

Innovations in Practice

The research book is focused on the recent advances in computer vision methodologies and innovations in practice.

Features

► Focuses on computer vision methodologies and technical solutions applied to advanced control systems using conventional and intelligent paradigms ► Presents applications and practical innovations of applied computer vision and vision-based control systems ► Written by experts in the field

Contents

Computer Vision in Advanced Control Systems: Innovations in Practice.- Human Action Recognition: Contour-Based and Silhouette-based Approaches.- The Application of Machine Learning Techniques to Real Time Audience Analysis Sy.- Panorama Construction from Multi-view Cameras in Outdoor Scenes.- A New Real-Time Method of Contextual Image Description and Its Application in Robot Navigation and Intelligent Control.- Perception of Audio Visual Information for Mobile Robot Motion Control Systems.- Adaptive Surveillance Algorithms Based on the Situation Analysis.- Enhanced, Synthetic and Combined Vision Technologies.- Navigation of Autonomous Underwater Vehicles Using Acoustic and Visual Data Processing.- Efficient Denoising Algorithms for Intelligent Recognition Systems.- Image Segmentation Based on Two-dimensional Markov Chains.

Fields of interest

Computational Intelligence; Artificial Intelligence (incl. Robotics); Control

Target groups

Research

Product category

Monograph

Due October 2014

2015. XIII, 297 p. 139 illus., 72 illus. in color. (Intelligent Systems Reference Library, Volume 75) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11429-3

S. Fukuda, Keio University, Tokyo, Japan (Ed)

Emotional Engineering (Vol. 3)

This book examines how theories of human emotion can be applied to engineering in order to improve product design and value. 'Emotional Engineering Vol. 3' establishes the idea that customer satisfaction can be maximised by using knowledge and experience in a more flexible manner to respond to a fast-changing world. This integration of emotion and knowledge introduces the reader to the concept of Wisdom Engineering. It also highlights the importance of emotion in creating value for the customer, and how this can be achieved by acknowledging a customer's creativity and by facilitating the customization of products for their needs and preferences. As has been identified by neuroscientists, emotion and reason are strongly interconnected, and the increasing complexities and diversification found in the products we use demonstrates the growing significance of emotion when designing these products. Society is comprised of humans and artificial products; their integration is important when considering product design, and improving quality-of-life for the customer. 'Emotional Engineering Vol.

Features

► Examines how theories of human emotion can be applied to engineering in order to improve product design and value ► Introduces the reader to the concept of Wisdom Engineering ► Highlights the importance of emotion in creating value for the customer

Contents

From the Contents: Increasing Importance of MRO (Maintenance, Repair and Operations) and Emotional Engineering.- Emotional Feature Based Design: A Way to Mass Personalization.- Personal Fabrication and Emotional Engineering.

Fields of interest

Engineering Design; R & D/Technology Policy; Industrial Design

Target groups

Research

Product category

Monograph

Due February 2015

2015. 300 p. 40 illus., 10 illus. in color. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11554-2

E. Garcia, A. Giret, Polytechnic University of Valencia, Valencia, Spain; **V. Botti,** Polytechnic University of Valencia, Valenica, Spain

Regulated Open Multi-Agent Systems (ROMAS)

A Multi-Agent Approach for Designing Normative Open Systems

Addressing the open problem of engineering normative open systems using the multi-agent paradigm, normative open systems are explained as systems in which heterogeneous and autonomous entities and institutions coexist in a complex social and legal framework that can evolve to address the different and often conflicting objectives of the many stakeholders involved. Presenting a software engineering approach which covers both the analysis and design of these kinds of systems, and which deals with the open issues in the area, ROMAS (Regulated Open Multi-Agent Systems) defines a specific multi-agent architecture, metamodel, methodology and CASE tool.

Features

► Analyzes the specific requirements for designing normative open systems and discusses to what extent current agent methodologies support it ► Presents a software engineering approach that covers the analysis and design of these kinds of systems ► Provides a detailed and easy to understand description of the ROMAS approach

Contents

1.-Introduction 2.-Requirements for designing normative open multiagent systems 3.- State of the art 4.- ROMAS approach overview 5.-ROMAS modeling language 6.-ROMAS methodology 7.- ROMAS development framework 8.- ROMAS approach evaluation .9.- Conclusions

Fields of interest

Computational Intelligence; Artificial Intelligence (incl. Robotics); Software Engineering

Target groups

Research

Product category

Monograph

Due November 2014

2015. VII, 149 p. 57 illus. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11571-9

A. Gefen, Tel Aviv University Faculty of Engineering, Tel Aviv, Israel; **D. Benayahu,** Tel Aviv University, Ramat Aviv, Israel (Eds)

The Mechanobiology of Obesity and Related Diseases

Features
► Describes the state-of-knowledge in the study of the relationships between mechanical loading states in tissues and common pathophysiologies ► Includes the important topics at the frontier of this field ► Written by important scientists in the field

Contents
Mechanical behavior and properties of adipose tissue.- Mathematical models of adipose tissue dynamics.- Mechanical stretching and signaling pathways in adipogenesis- Role of mechanical stimulations in directing mesenchymal stem cell adipogenesis.- The vicious cycle of estrogen consumption and obesity: The role of mechanotransduction.- Extracellular matrix remodeling and mechanical stresses as modulators of adipose tissue metabolism and inflammation.- The Impact of Obesity and Weight Loss on Gait in Adults.- Excessive Weight Bearing Compromises Foot Structure and Function across the Lifespan.- Obesity, Osteoarthritis and Aging: The Biomechanical Links.- Impaired neutrophil mechanoregulation by fluid flow: A potential contributing factor for microvascular dysfunction in obesity.- Mechanotransduction and the myogenic response in diabetes.- Role of adipose cells in tumor microenvironment.

Fields of interest
Biomedical Engineering; Cell Physiology; Physics of the Cell

Target groups
Research

Product category
Contributed volume

Due September 2014

2015. 290 p. (Studies in Mechanobiology, Tissue Engineering and Biomaterials, Volume 16) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-09335-2

A. Ghosh, Plymouth, MA, USA

Dynamic Systems for Everyone

A Better Way to Understand How Our World Works

This book is a study of the interactions between different types of systems, their environment, and the interactions of the subsystems within a system. The author explains how basic systems principles are applied in physical (mechanical, electromechanical, etc.) systems and then guides the reader carefully to understand how the same principles can be extrapolated to social, political, economic systems, as well as everyday life. Readers from a variety of disciplines will benefit from the understanding of system behavior they will gain from this book and will be able to apply those principles in various contexts. The author reveals how principles such as feedback control can be applied to natural and social contexts, whereas system dynamics can also be applied to mechanical and electromechanical systems. The treatment of the subject is non-mathematical, and the book considers some of the latest concepts in the systems discipline, such as agent-based systems, optimization, and discrete events and procedures.

Features
► Shows how system knowledge may be applied in many different areas without the need for deep mathematical knowledge ► Demonstrates how to model and simulate system behavior on personal computers with readily available software packages ► Discusses the benefits of systems with highly distributed intelligence and the ways in which they may be modeled ► Discusses how to incorporate discrete events and sequential steps in system dynamics

Fields of interest
Job Careers in Science and Engineering; Vibration, Dynamical Systems, Control; Computers and Society

Target groups
Professional/practitioner

Product category
Professional book

Due February 2015

2015. 250 p. 100 illus., 50 illus. in color. Hardcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 68,50**
► **approx. € 49,99 | £46.99**
ISBN 978-3-319-10734-9

A. Ghosh, Indian Institute of Engineering Science, Howrah, India; **B. Corves,** RWTH Aachen, Aachen, Germany

Introduction to Micromechanisms and Microactuators

This book presents a basic introduction to micromechanisms and microactuators, particularly to their basic configurations and design. This book fills the persisting gap in the published literature on the mechanical manipulative aspects of micromechanisms. It also helps in offering specialized introductory courses on micromechanisms and microactuators not as part of MEMS sensing devices, but as mechanical manipulative systems. The level of the book is suitable for use in both undergraduate and introductory graduate programmes. The book presents an overview of miniaturization and scaling laws, basic design principles of micro-sized mechanisms and actuators, micro-fabrication processes, and some futuristic issues. The volume contains a large number of figures and illustrations for easy understanding by the readers.

Features
► Fills up the persisting gap in the published literature on the mechanical manipulative aspects of Micromechanisms ► Presents an overview of miniaturization and scaling laws, basic design principles of micro-sized mechanical mechanisms and actuators, micro-fabrication processes and some futuristic issues ► Contains large number of simple illustrations for clarity and easy to understand material for undergraduate and/or graduate level courses ► Includes a special chapter on 'Scaling Laws' that forms the basic foundation for the 'science of miniaturization'

Fields of interest
Machinery and Machine Elements; Mechatronics; Nanotechnology and Microengineering

Target groups
Research

Product category
Monograph

Due January 2015

2015. 200 p. 170 illus. (Mechanisms and Machine Science, Volume 28) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-81-322-2143-2

I. Gibson, National University of Singapore, Singapore, Singapore; **D. Rosen,** Georgia Institute of Technology, Atlanta, GA, USA; **B. Stucker,** University of Louisville, Louisville, KY, USA

Additive Manufacturing Technologies

3D Printing, Rapid Prototyping, and Direct Digital Manufacturing

This book covers in detail the various aspects of joining materials to form parts. A conceptual overview of rapid prototyping and layered manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly.

Features
► Reflects recent developments and trends and adheres to the ASTM, SI and other standards ► Includes chapters on automotive technology, aerospace technology and low-cost AM technologies ► Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered

Contents
Introduction and basic principles.- Development of AM technology.- Generalized AM process chain.- Photopolymerisation processes.- Powder bed fusion processes.- Extrusion based systems.- Printing processes.- Sheet lamination processes.- Beam deposition processes.- Direct write technologies.- Low-cost AM technologies.- Guidelines for process selection.- Post-processing.- Software issues for AM.- AM Standards.- Multiple materials in AM.- Direct Digital Manufacturing.- Design for AM.- Rapid tooling.- Medical applications for AM.- Aerospace applications for AM.- Automotive applications for AM.- Business opportunities and future directions.

Fields of interest
Engineering Design; Manufacturing, Machines, Tools; Nanotechnology

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

G. Gratton, Brunel University, Uxbridge, UK

Initial Airworthiness

Determining the Acceptability of New Airborne Systems

Designed as an introduction for both advanced students in aerospace engineering and existing aerospace engineers, this book covers both engineering theory and professional practice in establishing the airworthiness of new and modified aircraft.

Features
► Covers the entire process of establishing initial airworthiness for new aerospace products ► A one-stop reference detailing the current regulations in both Europe and North America ► Provides instruction on professional practice in airworthiness

Contents
What is airworthiness.?.- The atmosphere.- The pitot static system.- The flight envelope.- First principles of structural approval.- Approving an aircraft's main flight structure.- Undercarriage structural approval.- Control surfaces and circuits.- Powerplant airworthiness.- Crashworthiness.- Introduction to flying qualities evaluation.- Longitudinal stability and control.- Lateral and directional stability and control.- Aeroplane Asymmetry.- Stalling characteristics.- Systems assessment.- Facilitating continued airworthiness.

Fields of interest
Aerospace Technology and Astronautics; Fluid- and Aerodynamics

Target groups
Research

Product category
Professional book

D. Greiner, B. Galván, Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain; **J. Periaux,** University of Jyväskylä, Jyväskylä, Finland, and Universitat Politècnica de Catalunya, Barcelona, Spain, Barcelona, Spain; **N. Gauger,** RWTH Aachen University, Aachen, Germany; **K. Giannakoglou,** National Technical University of Athens, Athens, Greece; **G. Winter,** Universidad de Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain (Eds)

Advances in Evolutionary and Deterministic Methods for Design, Optimization and Control in Engineering and Sciences

Contents
Preface.- Part 1: Theoretical and Numerical Methods and Tools for Optimization.- 1.1 Theoretical Methods and Tools.- 1.1.1 Multi-Objective Evolutionary Algorithms in Real-World Applications: Some Recent Results and Current Challenges, by Carlos A. Coello Coello.- 1.1.2 Hybrid Optimization Algorithms and Hybrid Response Surfaces, by George S. Dulikravich and Marcelo J. Colaco.- 1.1.3 A genetic algorithm for a sensor device location problem, by Egidio D'Amato, Elia Daniele and Lina Mallozzi.- 1.1.4 The Role of Artificial Neural Networks in Evolutionary Optimization: A Review, by Mustapha Maarouf, Adriel Sosa, Blas Galván, David Greiner, Gabriel Winter, Máximo Mendez and Ricardo Aguasca.- 1.1.5 Reliability-based Design Optimization with the Generalized Inverse Distribution Function, by Domenico Quagliarella, Giovanni Petrone and Gianluca Iaccarino.- 1.2 Numerical Methods and Tools. [...]

Fields of interest
Engineering Design; Theoretical and Applied Mechanics; Computational Science and Engineering

Target groups
Research

Product category
Monograph

Due November 2014

2nd ed. 2014. X, 590 p. 221 illus., 109 illus. in color. Hardcover
► approx. *€ (D) 80,20 | € (A) 82,45 | sFr 98,00
► approx. € 74,95 | £66.99
ISBN 978-1-4939-2112-6

Due November 2014

2015. IX, 519 p. 158 illus., 128 illus. in color. Hardcover
► approx. *€ (D) 96,29 | € (A) 98,99 | sFr 120,00
► approx. € 89,99 | £81.00
ISBN 978-3-319-11408-8

Due November 2014

2015. XI, 506 p. 240 illus. (Computational Methods in Applied Sciences, Volume 36) Hardcover
► *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-3-319-11540-5

H. Haken, Institute for Theoretical Physics, Center of Synergetics, University of Stuttgart, Stuttgart, Germany; **J. Portugali,** Tel Aviv University, Tel Aviv, Germany

Information Adaptation: The Interplay Between Shannon Information and Semantic Information in Cognition

This monograph demonstrates the interplay between Shannon information and semantic information in cognition.

Features
► Shows and explains how Shannon's information acts as driving force for the formation of semantic information, and vice versa too, namely, that semantic information participates in the formation of Shannonian information ► Demonstrates that, in cognition, Shannonian and semantic information are interrelated as two aspects of a cognitive process ► Illustrates the concepts and mathematics by reference to three cognitive processes: pattern recognition, face learning and the recognition of a moving object

Contents
Shannonian versus semantic information and cognition.- Information versus data.- The empirical basis of information adaptation.- A complexity theory approach to information.- On synergetic computers and other machines.- Pattern recognition as a paradigm of information adaptation.- From general principles of information adaptation to concrete specific models.- Some further applications and discussions of information adaptation.

Fields of interest
Complexity; Socio- and Econophysics, Population and Evolutionary Models; Computational Intelligence

Target groups
Research

Product category
Brief

Due October 2014

2015. XII, 89 p. 49 illus., 12 illus. in color. (SpringerBriefs in Complexity) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11169-8

A.-E. Hassanien, Cairo University, Cairo, Egypt; **A. T. Azar,** Benha University, Benha, Egypt; **V. Snasel,** VSB-Technical University of Ostrava, Ostrava-Poruba, Czech Republic; **J. Kacprzyk,** Polish Academy of Sciences, Warsaw, Poland; **J. H. Abawajy,** Deakin University, Geelong, VIC, Australia (Eds)

Big Data in Complex Systems

Challenges and Opportunities

Contents
Cloud Computing Infrastructure for Massive Data: A Gigantic Task Ahead.- Big Data Movement: a Challenge in Data Processing.- Towards Robust Performance Guarantees for Models Learned from High-Dimensional Data.- Stream Clustering Algorithms: A Primer.- Cross Language Duplicate Record Detection in Big Data.- A Novel Hybridized Rough Set And Improved Harmony Search Based Feature Selection For Protein Sequence Classification.- Autonomic Discovery of News Evolvement in Twitter.- Hybrid Tolerance Rough Set based Intelligent Approaches for Social Tagging Systems.- Exploitation Of Healthcare Databases In Anesthesiology And Surgical Care For Comparing Comorbidity Indexes In Cholecystectomized Patients.- Sickness Absence And Record Linkage Using Primary Healthcare, Hospital And Occupational Databases.- Classification of ECG Cardiac Arrhythmias using Bijective Soft Set.- Semantic Geographic Space: from Big Data to Ecosystems of Data .- DNA Methylation Data Analysis and Visualizing in a Common Form of Breast Cancer.- Data Quality, Analytics, and Privacy in Big Data.- Search, analysis and visual comparison of massive and heterogeneous data: Application in the medical field .- Modified Soft Rough set based ECG signal Classification for Cardiac arrhythmias.- Towards a new architecture for the description and manipulation of large distributed data.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due December 2014

2015. XII, 591 p. (Studies in Big Data, Volume 9) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11055-4

A. E. Hassanien, Cairo University, Giza, Egypt; **A. T. Azar,** Benha University, Benha, Egypt (Eds)

Brain-Computer Interfaces

Current Trends and Applications

The success of a BCI system depends as much on the system itself as on the user's ability to produce distinctive EEG activity. BCI systems can be divided into two groups according to the placement of the electrodes used to detect and measure neurons firing in the brain. These groups are: invasive systems, electrodes are inserted directly into the cortex are used for single cell or multi unit recording, and electrocorticography (EcoG), electrodes are placed on the surface of the cortex (or dura); noninvasive systems, they are placed on the scalp and use electroencephalography (EEG) or magnetoencephalography (MEG) to detect neuron activity. The book is basically divided into three parts. The first part of the book covers the basic concepts and overviews of Brain Computer Interface. The second part describes new theoretical developments of BCI systems. The third part covers views on real applications of BCI systems.

Features
► Presents current trends and applications in Brain Computer Interface technology ► Presents novel paradigms for EEG signal recording, advanced methods for processing them, new applications for Brain Computer Interface systems ► Describes software and hardware packages used for Brain Computer Interface applications ► Written by experts in the field

Contents
General Views on Brain-Computer Interfacing.- New Theoretical Developments.- Views on Applications.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics); User Interfaces and Human Computer Interaction

Target groups
Research

Product category
Monograph

Due October 2014

2015. VII, 448 p. 226 illus., 37 illus. in color. (Intelligent Systems Reference Library, Volume 74) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10977-0

K. Hausken, University of Stavanger, Stavanger, Norway; **J. Zhuang,** University at Buffalo State University of New York, Buffalo, NY, USA (Eds)

Game Theoretic Analysis of Congestion, Safety and Security

Maximizing reader insights into the interactions between game theory, excessive crowding and safety and security elements, this book establishes a new research angle by illustrating linkages between different research approaches and through laying the foundations for subsequent analysis. Congestion (excessive crowding) is defined in this work as all kinds of flows; e.g., road/sea/air traffic, people, data, information, water, electricity, and organisms.

Features
► Introduces aspects of safety, security and game theory into discussions focused on excessive crowding ► Considers systems where congestion occurs, which may be in parallel, series, interlinked, or interdependent, with flows one way or both ways ► Provides improved tools for handle congestion whilst ensuring safety and security against various threats

Contents
1.- Congestion Management in Motorways and Urban Networks through a Bargaining-Game-Based Coordination Mechanism 2.-Advanced Information Feedback Coupled with an Evolutionary Game in Intelligent Transportation Systems 3.-Solving a Dynamic User-Optimal Route Guidance Problem Based on Joint Strategy Fictitious Play 4.-A Psycho-Social Agent-Based Model of Driver Behavior Dynamics

Fields of interest
Quality Control, Reliability, Safety and Risk; Systems and Data Security; Game Theory, Economics, Social and Behav. Sciences

Target groups
Research

Product category
Monograph

Due December 2014

2015. 400 p. 33 illus., 3 illus. in color. (Springer Series in Reliability Engineering) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11673-0

C. Jeffery, University of Idaho Department of Computer Science, Moscow, ID, USA; **J. Al-Gharaibeh,** University of Idaho, Moscow, ID, USA

Writing Virtual Environments for Software Visualization

Writing Virtual Environments for Software Visualization book describes the software for a networked, 3D multi-user virtual environment that allows users to create and share remotely visualizations of program behavior. Collaborative virtual environments such as World of Warcraft or Second Life are a popular way to share interactive internet experiences, but they are complex and difficult to create. Software visualization is an area that may enable important advances in our ability to understand and reduce the costs of maintaining software. Applying the former technology to this problem area will be valuable to distributed and multi-institutional software development and educational users. The author covers the major features of collaborative virtual environments and how to program them in a very high level language.

Features
► Discusses the acquisition of program behavior data to be visualized ► Demonstrates the integration of multiple 2D and 3D dynamic views within a 3D scene ► Presents the network messaging capabilities to share those visualizations

Contents
Software Instrumentation and Data Collection.- Visualizing Aspects of Program Behavior.- Integrating Multiple Views.- Sharing Visualizations Across a Network.- Virtual Environments.- Dynamic World Models.- Non-Player Characters and Quests.- Dynamic Texturing and Embedded Visualizations.- Bug Hunting.

Fields of interest
Signal,Image and Speech Processing; Image Processing and Computer Vision; Visualization

Target groups
Research

Product category
Monograph

Due March 2015

2015. 300 p. Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 127,50**
► **approx. € 99,95 | £86.50**
ISBN 978-1-4614-1754-5

T. Kaczorek, Bialystok University of Technology, Bialystok, Poland; **K. Rogowski,** Białystok University of Technology, Białystok, Poland

Fractional Linear Systems and Electrical Circuits

This monograph covers some selected problems of positive and fractional electrical circuits composed of resistors, coils, capacitors and voltage (current) sources. The book consists of 8 chapters, 4 appendices and a list of references. Chapter 1 is devoted to fractional standard and positive continuous-time and discrete-time linear systems without and with delays.

Features
► Recent original research on fractional linear systems and electrical circuits ► Presents selected problems of positive and fractional electrical circuits composed of resistors, coils, capacitors and voltage sources ► Includes 4 appendices devoted to basic definitions and theorems on Laplace and Z-transforms, elementary row and column operations on matrices , some properties of the nilpotent matrices, as well as the definition of Drazin inverse of matrices and its properties

Contents
Fractional differential equations.- Positive fractional electrical circuits.- Descriptor linear electrical circuits and their properties.- Stability of positive standard linear electrical circuits.- Reachability, observability and reconstructability.- Standard and fractional linear circuits with feedbacks.- Minimum energy control of electrical circuits.- Fractional 2D systems described by the Roesser model.- Laplace transforms and Z-transforms.- Elementary operations on matrices.- Nilpotent matrices.- Drazin inverse matrix.

Fields of interest
Control; Computational Intelligence; Circuits and Systems

Target groups
Research

Product category
Monograph

Due November 2014

2015. XII, 288 p. (Studies in Systems, Decision and Control, Volume 13) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11360-9

H. Kam, UC Berkeley, Berkeley, CA, USA; **F. Chen,** Lion Semiconductor, Inc., Berkeley, CA, USA

Micro-Relay Technology for Energy-Efficient Integrated Circuits

This volume describes the design of relay-based circuit systems from device fabrication to circuit micro-architectures. This book is ideal for both device engineers as well as circuit system designers, and highlights the importance of co-design across design hierarchies when trying to optimize system performance (in this case, energy-efficiency). The book will also appeal to researchers and engineers focused on semiconductor, integrated circuits, and energy efficient electronics.

Features
► Covers microsystem fabrication, MEMS device design, circuit design, circuit micro-architecture and CAD ► Describes work previously done in the field and also lays the groundwork and criteria for future energy-efficient device and system design ► Maximizes reader insights into the design and modeling of micro-relay, micro-relay reliability, integrated circuit design with micro-relays, and more

Contents
A New Era of Old Electronics.- Design and Modeling of Micro-Relay.- Micro-Relay Technologies.- Micro-Relay Reliability.- Optimization and Scaling of Micro-Relays for Ultra-Low-Power Digital Logic.- Integrated Circuit Design with Micro-Relays.- Micro-Relay Circuits for VLSI Applications.

Fields of interest
Nanotechnology and Microengineering; Circuits and Systems; Energy Efficiency (incl. Buildings)

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2015. III, 203 p. 162 illus., 56 illus. in color. (Microsystems and Nanosystems) Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 127,50**
► **approx. € 99,95 | £86.50**
ISBN 978-1-4939-2127-0

A. Kondoz, University of Surrey Faculty Engineering & Physical Sciences, Guildford, UK; **T. Dagiuklas,** Hellenic Open University, Patras, Greece (Eds)

Novel 3D Media Technologies

This book describes recent innovations in 3D media and technologies, with coverage of 3D media capturing, processing, encoding, and adaptation, networking aspects for 3D Media, and quality of user experience (QoE).

Features
► Describes the latest innovations in 3D technologies and future Internet media ► Focuses on research to facilitate application scenarios such as social TV and high-quality, real-time collaboration ► Discusses QoE for 3D ► Represents the last of a series of three volumes devoted to contributions from FP7 projects in the area of 3D and networked media

Contents
Introduction.- Novel approaches to Immersive Media: from enlarged field-of-view to multi-sensorial experiences.- 3D Video Representation and Coding.- Full Parallax 3D Video Content Compression.- 3D Holoscopic Video Representation and Coding Technology.- Visual Attention Modelling in a 3D Context.- Dynamic cloud resource migration for efficient 3D video processing in mobile computing environments.- Cooperative Strategies for End-to-End Energy Saving and QoS Control.- Real-Time 3D QoE Evaluation of Novel 3D Media.- Visual discomfort in 3DTV: Definitions, causes, measurement, and modeling.- 3D Sound Reproduction by Wave Field Synthesis.- Utilizing social interaction information for efficient 3D immersive overlay communications.

Fields of interest
Signal,Image and Speech Processing; Optics, Optoelectronics, Plasmonics and Optical Devices; Computer Communication Networks

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 255 p. 122 illus., 100 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-1-4939-2025-9

S. Krivoshapko, V. Ivanov, Peoples' Friendship University of Russia, Moscow, Russia

Encyclopedia of Analytical Surfaces

This encyclopedia presents an all-embracing collection of analytical surface classes.

Features
► Presents an all-embracing collection of analytical surface classes ► Comprises over 500 surfaces incorporating 38 classes of analytical surfaces ► Offers a valuable reference for structural and civil engineers and mathematicians ► Includes cross references to the original literature in an excellent bibliography

Contents
Surfaces of Revolution.- Translation Surfaces.- Carved Surfaces.- Surfaces of Congruent Sections.- Continuous Topographic and Topographic Surfaces.- Helical Surfaces.- Spiral Surfaces.- Spiral-Shaped Surfaces.- Helix-Shaped Surface.- Blutel Surfaces.- Veronese Surfaces.- Tzitzéica Surfaces.- Peterson Surfaces.- Surfaces of Bézier.- Quasi-Ellipsoidal Surfaces.- Cyclic Surfaces.- One-Sided Surfaces.- Minimal Surfaces.- Affine Minimal Surfaces.- Surfaces With Spherical Director Curve.- Weingarten Surfaces.- Surfaces of the Constant Gaussian Curvature.- Surfaces of the Constant Mean Curvature.- Wave-Shaped, Waving, and Corrugated Surfaces.- Surfaces of Umbrella Type.- Special Profiles of Cylindrical Products.- Bonnet Surfaces.- Edlinger's Surfaces.- Coons Surfaces.- Surfaces Given by Harmonic Functions.- Surfaces of Joachimsthal.- Saddle Surfaces.- Kinematical Surfaces of General Type.- The Second Order Surfaces.- Algebraic Surfaces of the High Orders.- Polyhedrons and Quasi-Polyhedrons.- Equidistances of Double Systems.

Fields of interest
Structural Mechanics; Algebraic Geometry; Building Construction

Target groups
Popular/general

Product category
Encyclop(a)edia

Due June 2015

Original Russian edition published by URSS/ Librokom, 2010

2015. 700 p. Hardcover
► **approx. *€ (D) 171,19 | € (A) 175,99 | sFr 213,00**
► **approx. € 159,99 | £144.00**
ISBN 978-3-319-11772-0

B. Kröger, Tübingen, Germany

Hermann Haken: From the Laser to Synergetics

A Scientific Biography of the Early Years

Hermann Haken (born 1927) is one of the "fathers" of the quantum-mechanical laser theory, formulated between 1962 and 1966, in strong competition with American researchers. Later on, he created Synergetics, the science of cooperation in multicomponent systems. The book concentrates on the development of his scientific work during the first thirty-five years of his career.

Features
► Presents the early years of Hermann Haken, who is one of the "fathers" of Quantum-mechanical laser theory as well as the founder of Synergetics, the science of cooperation in multicomponent systems ► Covers the development of Hermann Hakens thoughts during the first thirty-five years of his career ► In-depth presentation of the scientific career of one of the last polymaths

Contents
Introduction .- Hermann Haken: Youth and university education.-The Erlangen years: Solid State Physics 1950 – 1960.- Appointment to the Theoretical Physics Chair at the Technical University Stuttgart.- Hermann Haken and the "Stuttgart School", 1960 – 1970: their contribution to the development of laser theory.- Early years of Synergetics: 1970 – 1978.- The Propagation of Synergetics: 1978 - 1987.- Synergetics 1987–2010: Applications in medicine, cognition and psychology – a survey.- Theories of self-organization: The role of synergetics.

Fields of interest
Complexity; Nonlinear Dynamics; History and Philosophical Foundations of Physics

Target groups
Research

Product category
Monograph

K. G. Larsen, Center of Embedded Systems, Aalborg East, Denmark; **J. Tretmans,** Embedded Systems Institute, Eindhoven, Netherlands; **B. Nielsen,** Aalborg University Department of Computer Science, Aalborg, Denmark (Eds)

Quantitative Model-Based Analysis of Real-Time Embedded Systems

The Quasimodo Project

Characteristic for embedded systems is that they have to meet a multitude of quantitative constraints such as resource-, real-time-, or energy-consumption constraints. Model-Driven Development is a new software development technique in which the primary software artifacts are models providing a collection of views. Existing model-driven tools for real-time embedded systems are limited with respect to their treatment of quantitative constraints. This book presents methods and tools for dealing with quantitative constraints in model-driven development of embedded systems. It provides: 1. methods for modelling various quantitative aspects of embedded systems; 2. a wide range of powerful techniques and tools for analyzing such models; 3. methods for schedulability analysis, controller synthesis, and model-based testing with quantitative properties; 4. several industrial case studies demonstrating the strength of the techniques and tools.

Features
► Starters' tutorial on model checking for timed systems ► Latest methods, techniques, and tools for model-based, quantitative analysis of embedded systems ► All methods, techniques, and tools demonstrated on industrial examples

Fields of interest
Circuits and Systems; Software Engineering; Processor Architectures

Target groups
Professional/practitioner

Product category
Monograph

R. Lee, Central Michigan University, Mount Pleasant, MI, USA (Ed)

Software Engineering Research, Management and Applications

Contents
Performance Impact of New Interface for Non-Volatile Memory Storage.- Optimized Test Case Generation Based on Operational Profiles with Fault-Proneness Information.- Design Pattern for Self-adaptive RTE Systems monitoring.- Changing the Software Engineering Education: A Report from Current Situation in Mexico.- Analysis of Mouth Shape Deformation Rate for Generation of Japanese Utterance Images Automatically.- Predicting Fault-prone Modules by Word Occurrence in Identifiers.- The Influence of Alias and References Escape on Java Program Analysis.- Preliminary Evaluation of a Software Security Learning Environment.- Expression Strength for the Emotional Scene Detection from Lifelog Videos.- A Procedure for the Development of Mobile Applications Software.- The Relationships between Conversation Skill and Feeling of Load on Youth in Communicate with Elderly Persons using Video Image and Photographs.- Automatic Matching on Fracture Surface of Quarried Stone Using the Features of Plug-and-Feather Holes.- A Route Recommender System based on the User's Visit Duration at Sightseeing Locations.- Predicting Access to Healthcare Using Data Mining Techniques.- Object Tracking Method Using PTAMM and Estimated Foreground Regions.- Application of Detecting Blinks for Communication Support Tool.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due November 2014

2015. XII, 233 p. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11688-4

Due January 2015

2012. X, 250p. 10 illus.. (Embedded Systems) Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 143,50**
► **approx. € 99,95 | £90.00**
ISBN 978-94-007-1368-0

Due October 2014

2015. XIII, 234 p. 105 illus. (Studies in Computational Intelligence, Volume 578) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11264-0

T. Lenarz, Medical University of Hannover, Hannover, Germany; **P. Wriggers,** Leibniz University of Hannover, Hannover, Germany (Eds)

Biomedical Technology

During the last years computational methods lead to new approaches that can be applied within medical practice. Based on the tremendous advances in medical imaging and high-performance computing, virtual testing is able to help in medical decision processes or implant designs. Current challenges in medicine and engineering are related to the application of computational methods to clinical medicine and the study of biological systems at different scales. Additionally manufacturers will be able to use computational tools and methods to predict the performance of their medical devices in virtual patients. The physical and animal testing procedures could be reduced by virtual prototyping of medical devices. Here simulations can enhance the performance of alternate device designs for a range of virtual patients. This will lead to a refinement of designs and to safer products.

Features
► Recent research in Biomedical Technology ► Focuses on implants and implant design ► Presents models of tissues and biological systems

Contents
From the Contents: RVE procedure for estimating the elastic properties of inhomogeneous microstructures such as bone tissue.- A gradient-enhanced continuum damage model for residually stressed fibre-reinforced materials at finite strains.- A mechanically stimulated fracture healing model using a finite element framework.

Fields of interest
Continuum Mechanics and Mechanics of Materials; Biomedical Engineering; Health Informatics

Target groups
Research

Product category
Monograph

Due October 2014

2015. V, 180 p. 92 illus., 53 illus. in color. (Lecture Notes in Applied and Computational Mechanics, Volume 74) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-10980-0

M. Mach-Król, Katowice University of Economics, Katowice, Poland; **C. M. Olszak,** Katowice University of Economics, Katowice, Poland; **T. Pełech-Pilichowski,** AGH University of Mining and Metallurgy, Kraków, Poland (Eds)

Advances in ICT for Business, Industry and Public Sector

Features
► Presents Advances in ICT for Business, Industry and Public Sector ► Includes new applications of Computational Intelligence to the public sector ► Useful for researchers and practitioners including theoretical aspects as well as applications

Contents
A Multi-level Hierarchical Approach for Configuring Business Processes.- Profiling simulation performance: The example of the German toll system.- Analysis of Content of Posts and Comments in Evolving Social Groups.- Generation of Hierarchical Business Process Models from Attribute Relationship Diagrams.- Nonlinear Time Structures and Nonlinear Time Ontology for Description of Economic Phenomena.- Business Intelligence and Analytics in Organizations.- Low-frequency Signal Reconstruction and Abrupt Change Detection in Non-Stationary Time Series by Enhanced Moving Trend Based Filters.- The Assessment of the EPQ Parameter for Detecting H-Index Manipulation and the Analysis of Scientific Publications.- Fuzzy Multi-attribute Evaluation of Investments.- Theory of digital data processing in the ICT.- The opportunities and challenges connected with implementation of the Big Data concept.

Fields of interest
Computational Intelligence; Engineering Thermodynamics, Heat and Mass Transfer; Business Information Systems

Target groups
Research

Product category
Monograph

Due October 2014

2015. VI, 191 p. 76 illus., 9 illus. in color. (Studies in Computational Intelligence, Volume 579) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11327-2

K. Madani, University Paris-Est Créteil (UPEC), Créteil, France; **A. D. Correia,** University of Coimbra, Coimbra, Portugal; **A. Rosa,** Instituto Superior Tecnico IST Systems and Robotics Institute, Lisboa, Portugal; **J. Filipe,** Polytechnic Institute of Setúbal INSTICC, Setubal, Portugal (Eds)

Computational Intelligence

International Joint Conference, IJCCI 2012 Barcelona, Spain, October 5-7, 2012 Revised Selected Papers

Contents
Performance Impact of New Interface for Non-Volatile Memory Storage.- Optimized Test Case Generation Based on Operational Profiles with Fault-Proneness Information.-Design Pattern for Self-adaptive RTE Systems monitoring.- Changing the Software Engineering Education: A Report from Current Situation in Mexico.- Does A Code Review Tool Evolve As the DeveloperIntended?.- Analysis of Mouth Shape Deformation Rate for Generation of Japanese Utterance Images Automatically.- Predicting Fault-prone Modules by Word Occurrence in Identifiers.- The Influence of Alias and References Escape on Java Program Analysis.- Preliminary Evaluation of a Software Security LearningEnvironment.- Expression Strength for the Emotional Scene Detection from Lifelog Videos.- A Procedure for the Development of Mobile Applications Software.- The Relationships between Conversation Skill and Feeling of Load on Youth in Communicate with Elderly Persons using Video Image and Photographs.- Automatic Matching on Fracture Surface of Quarried Stone Using the Features of Plug-and-Feather Holes.- A Route Recommender System based on the User's Visit Duration at Sightseeing Locations.- Predicting Access to Healthcare Using Data Mining Techniques. [...]

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due October 2014

2015. XII, 332 p. (Studies in Computational Intelligence, Volume 577) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11270-1

A. Mason, Liverpool John Moores University, Liverpool, UK; **S. C. Mukhopadhyay,** Massey University (Manawatu), Palmerston North, New Zealand; **K. P. Jayasundera,** Massey University (Turitea), Palmerston North, New Zealand (Eds)

Sensing Technology: Current Status and Future Trends III

This book contains a collection of selected works stemming from the 2013 International Conference on Sensing Technology (ICST), which was held in Wellington, New Zealand. The purpose of the book is to distill the highlights of the conference, and therefore track the latest developments in sensing technologies. The book contents are broad, since sensors can be applied in many different areas.

Features
► Provides a broad overview of advanced sensor technologies ► Addresses the identification, modeling, selection, operation and integration of a wide variety of sensors ► Demonstrates the concepts of different sensors technology through simulation, design and real implementations

Contents
From the Contents: Review of the use of the optical fibers for safety applications in tunnels and car parks: pollution monitoring, fire and explosive gas detection.- Evanescent wave absorption based fiber-optic sensor - cascading of bend and tapered geometry for enhanced sensitivity.- Design of High-Resolution Optical Systems for Fast and Accurate Surface Reconstruction.- On the use of light sensors and pattern recognition techniques for automated detection of street lighting lamps.

Fields of interest
Electronics and Microelectronics, Instrumentation; Communications Engineering, Networks; Analytical Chemistry

Target groups
Research

Product category
Monograph

J. Nava, University of Texas at El Paso, El Paso, USA; **V. Kreinovich,** University of Texas at El Paso, El Paso, TX, USA

Algorithmic Aspects of Analysis, Prediction, and Control in Science and Engineering

An Approach Based on Symmetry and Similarity

This book demonstrates how to describe and analyze a system's behavior and extract the desired prediction and control algorithms from this analysis. A typical prediction is based on observing similar situations in the past, knowing the outcomes of these past situations, and expecting that the future outcome of the current situation will be similar to these past observed outcomes.

Features
► Presents how symmetries can be used in all classes of algorithmic problems of sciences and engineering ► Shows how the symmetry-based approach can be used in the analysis of real-life systems, from prediction to control ► Written by leading experts in the field

Contents
Introduction: Symmetries and Similarities as a Methodology for Algorithmics of Analysis, Prediction, and Control in Science and Engineering.- Algorithmic Aspects of Real-Life Systems Analysis: Approach Based on Symmetry and Simila.- Algorithmic Aspects of Prediction: An Approach Based on Symmetry and Similarity.- Algorithmic Aspects of Control: Approach Based on Symmetry and Similarity.- Possible Ideas for FutureWork.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics); Control

Target groups
Research

Product category
Monograph

F. Padula, A. Visioli, University of Brescia, Brescia, Italy

Advances in Robust Fractional Control

This monograph presents design methodologies for (robust) fractional control systems. It shows the reader how to take advantage of the superior flexibility of fractional control systems compared with integer-order systems in achieving more challenging control requirements. There is a high degree of current interest in fractional systems and fractional control arising from both academia and industry and readers from both milieux are catered to in the text. Different design approaches having in common a trade-off between robustness and performance of the control system are considered explicitly. The text generalizes methodologies, techniques and theoretical results that have been successfully applied in classical (integer) control to the fractional case.

Features
► Extends and generalizes already-well-known techniques from integer-order to fractional-order systems giving greater flexibility and more powerful control ► Presents novel material in a unified framework to form an important reference for researchers ► Novel approach to robust control achieves required phase margins despite variations in process gain

Contents
Introduction to Fractional Calculus.- Fractional Systems for Control.- Fractional Proportional-Integral-Derivative Controllers.- FOPID Controller Additional Functionalities.- H-infinity Control of Fractional Systems.- H-infinity Optimization-based FOPID Design.- Control Design Based on Input-Output Inversion.

Fields of interest
Control; Industrial Chemistry/Chemical Engineering; Industrial and Production Engineering

Target groups
Research

Product category
Monograph

Due October 2014

2015. XII, 435 p. (Smart Sensors, Measurement and Instrumentation, Volume 11) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10947-3

Due November 2014

2015. XII, 142 p. (Studies in Systems, Decision and Control, Volume 14) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-662-44954-7

Due October 2014

2015. XI, 176 p. 102 illus., 9 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-10929-9

A. Parracho Sant'Anna, Fluminense Federal University, Niterói, Brazil

Probabilistic Composition of Preferences, Theory and Applications

Putting forward a unified presentation of the features and possible applications of probabilistic preferences composition, and serving as a methodology for decisions employing multiple criteria, this book maximizes reader insights into the evaluation in probabilistic terms and the development of composition approaches that do not depend on assigning weights to the criteria.

Features
► Provides a unified presentation of the different features and possible applications of probabilistic preferences composition ► Features computational routines for probabilistic transformation and composition ► Considers the application of the probabilistic composition of preferences to important areas of management

Contents
Multiple Criteria Decision Analysis.- Approaches to Criteria Combination.- The Probabilistic Approach to Preferences Measurement.- Computation of Probabilities of Preference.- Composition by Joint Probabilities.- Composition by DEA Distance to the Frontier.- Dynamic Probabilistic Indices.- Probabilities in the Problem of Classification.- Capacities Determination.- Rough Sets Modeling.- Application to FMEA Priority Assessments.- Appendix.

Fields of interest
Industrial and Production Engineering; Operation Research/Decision Theory; Organization/Planning

Target groups
Research

Product category
Monograph

Due October 2014

2015. VII, 143 p. (Decision Engineering) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11276-3

S. Patnaik, SOA University, Bhubaneswar, India; **L. Xiaolong,** Indiana State University, Indiana, IN, USA; **Y.-M. Yang,** Kumoh National Institute of Technology, Gumi, Korea, Republic of (South Korea) (Eds)

Recent Development in Wireless Sensor and Ad-hoc Networks

Contents
Multi-Channel Wireless Sensor Networks.- Coverage, Connectivity and Deployment in Wireless Sensor Networks.- Development of Home Automation System by Using ZigbeX and Atmega128 for Wireless Sensor Networks.- The Analysis of the Two-Dimensional Probability CSMA Wireless LAN MAC Protocol with Monitoring.- Location Based Coordinated Routing Protocol for Wireless Sensor and Actor Networks.- Performance Comparison of BEMRP, MZRP, MCEDAR, ODMRP, DCMP & FGMP to Achieve Group Communication in MANET.- DMTMR-Based EAODV Method for Wireless Sensor Network.- Token Based Group Local Mutual Exclusion Algorithm in MANETs.- A Dual Band Z-Shape Stepped Dielectric Resonator Antenna for Millimeter Wave Applications.- OCDMA: Study and Future Aspects.- Focused Crawling: An Approach for URL Queue Optimization Using Link Score.- An Optimized Structure Filtered-x Least Mean Square Algorithm for Acoustic Noise Suppression in Wireless Networks.- An Exhaustive Comparison of ODMRP and ADMR Protocols for Ad-hoc Multicasting.

Fields of interest
Communications Engineering, Networks; Computer Communication Networks; Input/Output and Data Communications

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 198 p. 166 illus. (Signals and Communication Technology) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-81-322-2128-9

A. Peña-Ayala, Instituto Politécnico Nacional, Escuela Superior de Ingeniería Mecánica y Eléctrica, Zacatenco, Mexico City, Mexico (Ed)

Metacognition: Fundaments, Applications, and Trends

A Profile of the Current State-Of-The-Art

This book is devoted to the Metacognition arena. It highlights works that show relevant analysis, reviews, theoretical, and methodological proposals, as well as studies, approaches, applications, and tools that shape current state, define trends and inspire future research. As a result of the revision process fourteen manuscripts were accepted and organized into five parts as follows: · Conceptual: contains conceptual works oriented to: (1) review models of strategy instruction and tailor a hybrid strategy; (2) unveil second-order judgments and define a method to assess metacognitive judgments; (3) introduces a conceptual model to describe the metacognitive activity as an autopoietic system.

Features
► Provides an updated view of the application of metacognition to the educational arena ► Pursues to identify the metacognitive logistics: theories, models, frameworks, and methods ► Sketches a conceptual frame composed by: theoretical, formal, technological and experimental topics

Contents
Conceptual.- Framework.- Studies.- Approaches.- Tools.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics); Learning and Instruction

Target groups
Research

Product category
Monograph

Due October 2014

2015. XVII, 365 p. 46 illus. (Intelligent Systems Reference Library, Volume 76) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11061-5

N. Pereira, N. Paulino, UNINOVA, Caparica, Portugal

Design and Implementation of Sigma Delta Modulators (ΣΔM) for Class D Audio Amplifiers using Differential Pairs

This book focuses on the design of a 3rd Order CT-ΣΔM where the integrator stages of the filter are implemented with Bipolar-Junction Transistors (BJT) differential pairs. These circuits are fully analyzed and the design method is carefully explained. The design method is validated through experimental measurements of several prototype circuits.

Features
► Introduces readers to one of the premier solutions in signal conversion, for low frequency, high-resolution applications ► Describes a novel approach for the design of the integrator stages of the modulator ► Explains how to analyze and design a continuous time Sigma-Delta Modulator (ΣΔM) using only differential pairs as amplifiers

Contents
Introduction.- Class D Audio Amplifiers and Data Conversion Fundamentals.- Implementation of the ΣΔM.- Measured Prototypes and Experimental Results.- Conclusions.

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal,Image and Speech Processing

Target groups
Research

Product category
Brief

Due December 2014

2014. 90 p. 50 illus. (SpringerBriefs in Electrical and Computer Engineering) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11637-2

J. Periaux, International Center for Numerical Methods, Barcelona, Spain; **F. Gonzalez,** Queensland University of Technology, Brisbane, QLD, Australia; **D. S. Lee,** Samsung Electronics, Suwon, Korea, Republic of (South Korea)

Multidisciplinary Evolutionary Optmisation

Applications to Aeronautics

Features
► Provides a detailed description of methodologies that combine game theoretical strategy with Evolutionary Algorithms ► Applications may be found in complex multi-physics optimization problems drawn from a wide variety of areas such as biomedical engineering, surface transport, energy, and green technologies ► Offers the reader several practical, "hands-on " test problems together with descriptions of software and guidelines for capturing, presenting and discussing solutions

Contents
Preface.- Foreword by William Fitzgibbon.- Foreword by Roland Glowinski.- 1 Introduction.- 2 Evolutionary Methods.- 3. Multi-Objective EAs And Game Theory.- 4. Advanced Techniques for Evolutionary Algorithms (EAs).- 5. Multidisciplinary Design Optimisation and Robust Design in Aerospace Systems.- 6. A Framework for Numerical Design and Optimization Algorithms.- 7. Single Objective Model Test Case Problems.- 8. Multi-Objective Optimization Model Test Case Problems.- 9. Robust Multi-Objective and Multi-Disciplinary Model Optimization Test Cases.- 10. Robust Airfoil Design Optimization with Morphing Techniques.- Appendix I.

Fields of interest
Engineering Design; Optimization; Automotive Engineering

Target groups
Research

Product category
Monograph

Due January 2015

2015. X, 375 p. 80 illus., 30 illus. in color. (Intelligent Systems, Control and Automation: Science and Engineering, Volume 75) Hardcover
► **approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **approx. € 129,99 | £117.00**
ISBN 978-94-017-9519-7

D. Raiteri, E. Cantatore, A. H. Roermund, Eindhoven University of Technology, Eindhoven, The Netherlands

Circuit Design on Plastic Foils

This book illustrates a variety of circuit designs on plastic foils and provides all the information needed to undertake successful designs in large-area electronics. The authors demonstrate architectural, circuit, layout, and device solutions and explain the reasons and the creative process behind each. Readers will learn how to keep under control large-area technologies and achieve robust, reliable circuit designs that can face the challenges imposed by low-cost low-temperature high-throughput manufacturing.

Features
► Discusses implications of problems associated with large-area electronics and compares them to standard silicon ► Provides the basis for understanding physics and modeling of disordered material ► Includes guidelines to quickly setup the basic CAD tools enabling efficient and reliable designs ► Illustrates practical solutions to cope with hard/soft faults, variability, mismatch, aging and bias stress at architecture, circuit, layout, and device levels

Contents
Introduction.- Applications of large-area electronics on foils.- State of the art in circuit design.- Device modeling and characterization.- Sensor frontend architecture.- Circuit design for analog signal conditioning.- Circuit design for data conversion.- Circuit design for digital processing.- Conclusions.

Fields of interest
Circuits and Systems; Electronic Circuits and Devices; Electronics and Microelectronics, Instrumentation

Target groups
Research

Product category
Monograph

Due October 2014

2015. X, 142 p. 103 illus., 53 illus. in color. (Analog Circuits and Signal Processing) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11426-2

F. Rodríguez, M. Berenguel, J. L. Guzman, A. Ramírez-Arias, Universidad de Almería, Almería, Spain

Modeling and Control of Greenhouse Crop Growth

A discussion of challenges related to the modeling and control of greenhouse crop growth, this book presents state-of-the-art answers to those challenges. The authors model the subsystems involved in successful greenhouse control using different techniques and show how the models obtained can be exploited for simulation or control design; they suggest ideas for the development of physical and/or black-box models for this purpose. Strategies for the control of climate- and irrigation-related variables are brought forward. The uses of PID control and feedforward compensators, both widely used in commercial tools, are summarized.

Features
► For the academic researcher: describes the state of the art in greenhouse control summarizing new solutions using advanced control techniques ► For the industrial food producer: advises improvements to software currently restricted to low-level climate and irrigation aspects of crop growth control ► For the practitioner: improvements in greenhouse management and crop growth are made plain by real results

Contents
Introduction.- The Greenhouse Dynamical System.- Climate and Irrigation Control.- Crop Growth Control.- Advice and Suggestions for Greenhouse Technicians and Producers.- Appendix.

Fields of interest
Control; Agriculture; Industrial and Production Engineering

Target groups
Research

Product category
Brief

Due October 2014

2015. XXIX, 254 p. 99 illus., 76 illus. in color. (Advances in Industrial Control) Hardcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11133-9

M. Rudan, University of Bologna, Bologna, Italy

Physics of Semiconductor Devices

This book describes the basic physics of semiconductors, including the hierarchy of transport models, and connects the theory with the functioning of actual semiconductor devices. Details are worked out carefully and derived from the basic physics, while keeping the internal coherence of the concepts and explaining various levels of approximation. Examples are based on silicon due to its industrial importance. Several chapters are included that provide the reader with the quantum-mechanical concepts necessary for understanding the transport properties of crystals.

Features
► Provides comprehensive guide for practitioners and beginners, describing the physics of semiconductors from fundamentals to applications ► Proceeds from first principles to description of actual devices' behavior ► Includes mathematical derivations and explicit calculations, without being wordy

Contents
Part I A Review of AnalyticalMechanics and Electromagnetism.- Analytical Mechanics.- Coordinate Transformations and Invariance Properties.- Applications of the Concepts of AnalyticalMechanics.- Electromagnetism.- Applications of the Concepts of Electromagnetism.- Part II Introductory Concepts to Statistical and Quantum Mechanics.- Classical Distribution Function and Transport Equation.- From Classical Mechanics to Quantum Mechanics.- Time-Independent Schrodinger Equation.- Time-Dependent Schrodinger Equation.- General Methods of Quantum Mechanics.-

Fields of interest
Circuits and Systems; Semiconductors; Electronics and Microelectronics, Instrumentation

Target groups
Professional/practitioner

Product category
Undergraduate textbook

Due February 2015

2015. X, 676 p. 158 illus. Hardcover
► **approx. *€ (D) 96,29 | € (A) 98,99 | sFr 117,50**
► **approx. € 89,99 | £79.50**
ISBN 978-1-4939-1150-9

U. Schnars, Hagen, Germany; **C. Falldorf,** BIAS - Bremer Institut für angewandte Strahltechnik, Bremen, Germany; **J. Watson,** University of Aberdeen, Aberdeen, UK; **W. Jüptner,** Ritterhude, Germany

Digital Holography and Wavefront Sensing

Principles, Techniques and Applications

This book presents a self-contained treatment of the principles and major applications of digital hologram recording and numerical reconstruction (Digital Holography). This second edition has been significantly revised and enlarged. The authors have extended the chapter on Digital Holographic Microscopy to incorporate new sections on particle sizing, particle image velocimetry and underwater holography. A new chapter now deals comprehensively and extensively with computational wave field sensing.

Features
► Offers a comprehensive introduction to modern applications of holography in the diverse areas of measurement and imaging ► Covers the profound developments and scale of applications to which digital holography, and in the wider context 3D imaging technologies in general, are now being routinely applied ► Considers now computational wave field sensing and digital holographic microscopy

Contents
Introduction.- Fundamental Principles of Holography.- Digital Holography.- Digital Holographic Interferometry (DHI).- Digital Holographic Particle Sizing and Microscopy.- Special Techniques.- Computational Wave Field Sensing.- Speckle Metrology.

Fields of interest
Microwaves, RF and Optical Engineering; Optics, Optoelectronics, Plasmonics and Optical Devices; Signal,Image and Speech Processing

Target groups
Research

Product category
Monograph

Due October 2014

2nd ed. 2015. XI, 226 p. 145 illus., 27 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-662-44692-8

V. P. Sergienko, S. N. Bukharov, National Academy of Sciences of Belarus, Gomel, Belarus

Noise and Vibration in Friction Systems

The book analyzes the basic problems of oscillation processes and theoretical aspects of noise and vibration in friction systems. It presents generalized information available in literature data and results of the authors in vibroacoustics of friction joints, including car brakes and transmissions. The authors consider the main approaches to abatement of noise and vibration in non-stationary friction processes.

Features
► Discloses the role of self-oscillations in the generation of noise and vibration at friction ► Includes the development of frictional materials to minimize noise and vibration generated by brakes ► Summarizes investigations and tribological approaches to the problem of friction-induced noise and vibration

Contents
Introduction.- Oscillatory Processes and Vibration.- Acoustic Radiation, Sound Waves and Fields.- Methods of Analysis of Noise and Vibration Signals.- Friction-Excited Self-Oscillations.- Noise and Vibration in Nonstationary Friction Processes.- Materials Science Approaches to Abating Noise and Vibration in Nonstationary Friction Processes.- Physiological Aspects of Human Exposure to Noise and Vibration.- Conclusions.

Fields of interest
Vibration, Dynamical Systems, Control; Acoustics; Machinery and Machine Elements

Target groups
Research

Product category
Monograph

Due November 2014

2015. IX, 253 p. 111 illus., 22 illus. in color. (Springer Series in Materials Science, Volume 212) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11333-3

H. A. Serra, N. Paulino, UNINOVA, Caparica, Portugal

Design of Switched-Capacitor Filter Circuits using Low Gain Amplifiers

This book describes the design of switched-capacitor filter circuits using low gain amplifiers and demonstrates some techniques that can minimize the effects of parasitic capacitances during the design phase. Focus is given in the design of low-pass and band-pass SC filters, and how higher order filters can be achieved using cascaded biquadratic filter sections. The authors also describe a low voltage implementation of a low-pass SC filter.

Features
► Discusses the design of switched capacitor filters in deep-submicron CMOS technologies ► Describes alternative topologies for switched capacitor filter circuits that use only low gain amplifiers ► Explains topologies and derives appropriate design procedures, which are validated through electrical simulation

Contents
Introduction.- Switched-Capacitor Circuits.- Low Pass Filter Topologies.- Band Pass Filter Topologies.- Non-Ideal Effects.- Switched Capacitor Filter Implementation.- Conclusion.

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal,Image and Speech Processing

Target groups
Research

Product category
Brief

Due November 2014

2015. X, 108 p. 90 illus., 35 illus. in color. (SpringerBriefs in Electrical and Computer Engineering) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11790-4

G. B. Singh, Oakland University, Rochester, MI, USA

Fundamentals of Bioinformatics and Computational Biology

Methods and Exercises in MATLAB

This book offers comprehensive coverage of all the core topics of bioinformatics, and includes practical examples completed using the MATLAB bioinformatics toolbox™. It is primarily intended as a textbook for engineering and computer science students attending advanced undergraduate and graduate courses in bioinformatics and computational biology. The book develops bioinformatics concepts from the ground up, starting with an introductory chapter on molecular biology and genetics. This chapter will enable physical science students to fully understand and appreciate the ultimate goals of applying the principles of information technology to challenges in biological data management, sequence analysis, and systems biology. The first part of the book also includes a survey of existing biological databases, tools that have become essential in today's biotechnology research.

Features
► Clearly presents core bioinformatics principles with "hands-on" examples ► Illustrates the use of MATLAB bioinformatics toolbox™ for solving complex bioinformatics problems ► Synthetizes concepts in databases, machine learning, statistics and visualization for bioinformatics research ► Mainly written for computer scientists and engineers

Contents
Background.- Biological Database Retrieval.- Biological Sequence Analysis.-Phylogenetics and Systems Biology.

Fields of interest
Computational Intelligence; Computational Biology/Bioinformatics; Bioinformatics

Target groups
Graduate

Product category
Monograph

Due November 2014

2015. XII, 404 p. (Modeling and Optimization in Science and Technologies, Volume 6) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11402-6

G. Sirakoulis, Democritus University of Thrace, Xanthi, Greece; **A. Adamatzky,** University of the West of England, Bristol, UK (Eds)

Robots and Lattice Automata

Contents
Algorithmic Insights into Finite-State Robots.- Lattice Automata for Control of Self-Reconfigurable Robots.- Modular Reconfigurable Robotic Systems: Lattice Automata.- Lattice-based Modular Self-reconfigurable Systems.- Speed control on a hexapodal robot driven by a CNN-CPG structure.- Routing by Cellular Automata Agents in the Triangular Lattice.- Multi-Resolution Hierarchical Motion Planner for Multi-Robot Systems on Spatiotemporal Cellular Automata.- Autonomous Robot Path Planning techniques using Cellular Automata.- Cellular Robotic Ants Synergy Coordination for Path Planning.- Employing Cellular Automata for Shaping Accurate MorphologyMaps Using Scattered Data From Robotics' Missions.- On the use of Cellular Automata in Vision-based Robot Exploration.- Modelling Synchronisation in Multirobot Systems with CellularAutomata: Analysis of Update Methods and Topology Perturbations.- Cellular Automaton Manipulator Array.

Fields of interest
Robotics and Automation; Complexity; Computational Intelligence

Target groups
Research

Product category
Monograph

Due October 2014

2015. XI, 311 p. 180 illus., 91 illus. in color. (Emergence, Complexity and Computation, Volume 13) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10923-7

M. Soeken, R. Drechsler, University of Bremen, Bremen, Germany

Formal Specification Level

Concepts, Methods, and Algorithms

This book introduces a new level of abstraction that closes the gap between the textual specification of embedded systems and the executable model at the Electronic System Level (ESL). Readers will be enabled to operate at this new, Formal Specification Level (FSL), using models which not only allow significant verification tasks in this early stage of the design flow, but also can be extracted semi-automatically from the textual specification in an interactive manner. The authors explain how to use these verification tasks to check conceptual properties, e.g. whether requirements are in conflict, as well as dynamic behavior, in terms of execution traces.

Features
► Serves as a single-source reference to a new level of abstraction for embedded systems, known as the Formal Specification Level (FSL) ► Provides a variety of use cases which can be adapted to readers' specific design flows ► Includes a comprehensive illustration of Natural Language Processing (NLP) techniques, along with examples of how to implement and apply these techniques in the design of embedded systems

Contents
Introduction.- Background.- NLP-Assisted Model Generation.- Verification of Static Aspects.- Verification of Dynamic Aspects.- Conclusions.

Fields of interest
Circuits and Systems; Processor Architectures

Target groups
Research

Product category
Monograph

Due October 2014

2015. X, 150 p. 24 illus. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-08698-9

J. Spehr, Technische Universität Braunschweig, Braunschweig, Germany

On Hierarchical Models for Visual Recognition and Learning of Objects, Scenes, and Activities

In many computer vision applications, objects have to be learned and recognized in images or image sequences. This book presents new probabilistic hierarchical models that allow an efficient representation of multiple objects of different categories, scales, rotations, and views. The idea is to exploit similarities between objects and object parts in order to share calculations and avoid redundant information. Furthermore inference approaches for fast and robust detection are presented.

Features
► Provides important basic concepts, efficient methods as well as practical "how-to" examples for the use of hierarchical graphical models ► Discusses the importance and the relationship between sharing and similarity of objects and object parts for efficient recognition and learning approaches ► Comprehensive survey of related work divided in categories such as part-based, compositional or biologically inspired models ► Includes a brief review of probabilistic graphical models

Contents
Introduction.- Probabilistic Graphical Models.- Hierarchical Graphical Models.- Learning of Hierarchical Models.-Object Recognition.- Human Pose Estimation.- Scene Understanding for Intelligent Vehicles.- Conclusion.

Fields of interest
Robotics and Automation; Computational Intelligence; Image Processing and Computer Vision

Target groups
Research

Product category
Monograph

Due November 2014

2015. XII, 186 p. (Studies in Systems, Decision and Control, Volume 11) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11324-1

E. J. Suuronen, M. Ruel, University of Ottawa Heart Institute, Ottawa, ON, Canada (Eds)

Biomaterials for Cardiac Regeneration

This book offers readers a comprehensive biomaterials-based approach to achieving clinically successful, functionally integrated vasculogenesis and myogenesis in the heart.

Features
► Provides a valuable overview of the engineering of biomaterials for cardiac regeneration, including coverage of combined biomaterials and stem cells, as well as extracellular matrices ► Presents readers with multidisciplinary coverage of biomaterials for cardiac repair, including the role of extracellular matrix in cardiac development, whole-heart tissue engineering, and spatial and electrical factors regulating cardiac regeneration and assembly ► Provides a platform to allow for future developments and collaborative approaches in biomaterials-based regenerative medicine

Contents
The Role of Extracellular Matrix in Cardiac Development.- The Role of Embryonic and Differentiated Cells in Cardiac Development.- Spatial and Electrical Factors Regulating Cardiac Regeneration and Assembly.- Microenvironmental Control of Stem Cell Fate.- Matrix Therapies for Cell Support and Cardiac Repair.- Growth Factor Delivery Matrices for Cardiovascular Regeneration.- Whole-Heart Tissue Engineering: Use of Three Dimensional Matrix Scaffolds.- Immunological and Phenotypic Considerations in Supplementing Cardiac Biomaterials with Cells.- Imaging of the Biomaterial Structure and Function.- Autologous Bioengineered Heart Valves: An Update.- Safety, Regulatory and Ethical Issues of Human Studies.

Fields of interest
Biomedical Engineering; Biomaterials; Human Physiology

Target groups
Research

Product category
Monograph

Due November 2014

2015. XIV, 498 p. 47 illus., 45 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10971-8

Z. Tan, University of Waterloo, Waterloo, ON, Canada

Air Pollution and Greenhouse Gases

From Basic Concepts to Engineering Applications for Air Emission Control

Features
► Introduces students to underlying causes of air pollution and greenhouse gases ► Provides state-of-the-art knowledge in the control of air pollution and greenhouse gas emissions ► Includes examples that illustrate the principles and designs of air pollution and greenhouse gas emission control technologies ► Outlines air emission control approaches from a process point of view, starting from pre-combustion to air dispersion ► Worked examples and tutorial questions are presented at the end of each chapter ► Contains supplementary material on the reduction of air pollution and greenhouse gas; carbon sequestration and storage; nano air pollution

Contents
From the Contents: Part I Fundamental Principles.- Combustion Basics.- Properties of Gaseous Pollutants.- Properties of Particles.- Separation of Gas Pollutants from Air.- Part II Engineering Designs and Applications.- Air Emissions From Actual Fuel Combustion.- Air Quality and Air Emission Monitoring.- Pre Combustion Air Emission Control.- Part III Special Topics.- Carbon Sequestration and Storage.

Fields of interest
Quality Control, Reliability, Safety and Risk; Atmospheric Protection/Air Quality Control/Air Pollution; Environmental Engineering/Biotechnology

Target groups
Research

Product category
Graduate/Advanced undergraduate textbook

Due November 2014

2014. XXIX, 646 p. 128 illus. (Green Energy and Technology) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-981-287-211-1

F. Taucer, R. Apostolska, European Commission, Ispra, Italy (Eds)

Experimental Research in Earthquake Engineering

EU-SERIES Concluding Workshop

Contents
The George E. Brown, Jr., Network for Earthquake Engineering Simulation (NEES): Reducing the impact of EQs and Tsunamis.- A faceted lightweight ontology for earthquake engineering research projects and experiments.- The SERIES Virtual Database: Architecture and Implementation.- The SERIES Virtual Database: Exchange Data Format and local/central databases.- Qualification of seismic research testing facilities in Europe.- Towards Faster Computations and Accurate Execution of Real-Time Hybrid Simulation.-Pseudo-dynamic testing based on non-linear dynamic substructuring of a reinforced concrete bridge.- Geographically distributed continuous hybrid simulation tests using shaking tables.- Hybrid simulations of a piping system based on model reduction techniques.- A Support Platform for Distributed Hybrid Testing.- Substructuring for soil structure interaction using a shaking table.- On the control of shaking tables in acceleration mode.- Refined and simplified numerical models of an isolated old highway bridge for PsD testing. Assessment of the seismic behaviour of a retrofitted old R.C. highway bridge through PsD testing.-Full-scale testing of modern unreinforced thermal insulation clay block masonry houses.- Assessment of innovative solutions for non-load bearing masonry enclosures.- Seismic behaviour of thin-bed layered unreinforced clay masonry frames with T- or L-shaped piers.- Shake Table Testing of a Half-Scaled RC-URM Wall Structure. [...]

Fields of interest
Geoengineering, Foundations, Hydraulics; Structural Mechanics; Geotechnical Engineering & Applied Earth Sciences

Target groups
Professional/practitioner

Product category
Monograph

Due December 2014

2014. 620 p. 450 illus., 309 illus. in color. (Geotechnical, Geological and Earthquake Engineering, Volume 35) Hardcover
► **approx. *€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **approx. € 169,99 | £153.00**
ISBN 978-3-319-10135-4

L. Theogarajan, University of California, Santa Barbara Dept. Electrical & Computer Engineering, Santa Barbara, CA, USA

CMOS for Neural Prosthetics

The exponential advances in microfabrication coupled with our increased understanding of neural diseases enables the design of highly sophisticated, novel devices that benefit patients suffering from neurodegenerative diseases. This book provides a comprehensive treatment of CMOS circuits for neural prostheses and covers the basics of building CMOS electronic devices for stimulation and recording from neural systems. This book starts from the fundamentals of electrical neural stimulation and successively builds toward an implantable electronic device, while addressing the issues involved in designing such a device.

Features
► Outlines the basic processes of neural stimulation for a non-expert in the field ► Covers wireless power and data transfer, as well as low power VLSI techniques for implantable devices ► Shows readers to come up to speed quickly with the ability to build an implantable electronic device ► Provides single-source reference for material otherwise only available in disparate research publications

Contents
Electrical Interfaces to Neural Systems.- The Electrode.- Building an Implant; Power Transfer.- Data Transfer.- Neural Stimulation.- Neural Recording.- Applications.

Fields of interest
Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Research

Product category
Monograph

Due January 2015

2015. 200p. Hardcover
► approx. *€ (D) 106,95 | € (A) 109,95 | sFr 137,00
► approx. € 99,95 | £86.50
ISBN 978-1-4614-0531-3

M. Tohyama, (emeritus), Tokyo, Japan

Waveform Analysis of Sound

What is this sound? What does that sound indicate? These are two questions frequently heard in daily conversation. Sound results from the vibrations of elastic media and in daily life provides informative signals of events happening in the surrounding environment. In interpreting auditory sensations, the human ear seems particularly good at extracting the signal signatures from sound waves. Although exploring auditory processing schemes may be beyond our capabilities, source signature analysis is a very attractive area in which signal-processing schemes can be developed using mathematical expressions. This book is inspired by such processing schemes and is oriented to signature analysis of waveforms.

Features
► - Helps readers who are not familiar with sound and vibration, with the recommendation that readers learn the basics of signal-processing theory ► - Requires a minimal mathematical background and includes many exercises ► - Describes a basic theory that explains detailed experimental data on sound and vibration

Contents
Introduction.- Discrete sequences and Fourier transform.- Temporal and spectral characteristics of discrete sequence.- Temporal and spectral enhancement by sound path.- Modulation and periodic properties of temporal envelope.- Transfer function of linear systems.- Sampling theorem and discrete Fourier transform.- Sinusoidal representation of sequence.- Modeling for zeros in complex time and frequency plane

Fields of interest
Signal,Image and Speech Processing; Engineering Acoustics; Acoustics

Target groups
Research

Product category
Monograph

Due February 2015

2015. XVI, 250 p. 142 illus., 35 illus. in color. (Mathematics for Industry, Volume 3) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-4-431-54423-4

G. Ullrich, Voerde, Germany

Automated Guided Vehicle Systems

A Primer with Practical Applications

This primer is directed at experts and practitioners in intralogistics who are concerned with optimizing material flows. The presentation is comprehensive covering both, practical and theoretical aspects with a moderate degree of specialization, using clear and concise language. Areas of operation as well as technical standards of all relevant components and functions are described. Recent developments in technology and in the markets are taken into account. The goal of this book is to further stronger use of automated guided transport systems and the enhancement of their future performance.

Features
► Concise but comprehensive introduction ► Written for practitioners in diverse industrial branches ► Written by a practitioner

Contents
The History of Automated Guided Vehicle Systems.- Modern Areas of Application.- Technological Standards.- The Fourth Era.- Interdisciplinary Design of Automated guided Vehicle systems (AGVS).

Fields of interest
Engineering Economics, Organization, Logistics, Marketing; Robotics and Automation; Production/Logistics/Supply Chain Management

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. VI, 142 p. 156 illus., 144 illus. in color. Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-662-44813-7

W. van Bommel, Lighting Consultant, Nuenen, The Netherlands

Road Lighting

Fundamentals, Technology and Application

Features
► Provides an extensive update of the classic 1980 text, offering a completely fresh approach and covering the major developments in the field ► Written by an authority in the field and former President of the International Lighting Commission, CIE ► Provides the reader with a background of the subject and a knowledge of how these principles should be applied in practice

Contents
Part I: Road Lighting.- Purpose and Benefits of Road Lighting.- Basic Lighting Quantities.- Visual Performance for Motorists.- Visual Comfort for Motorists.- Visual Performance, Comfort and Pleasantness for Pedestrians, Cyclists and Residents.- Mesopic Vision.- Age Effects.- Lighting Quality Parameters.- Standards and Recommendations.- Equipment: Lamps and Gear.- Equipment: Luminaires.- Equipment: Road Surfaces.- Design Aspects.- Calculations and Measurements.- Part II: Light Pollution.- Purpose of Light-Pollution Restriction.- Light-Pollution Parameters.- Standards and Recommendations.- Equipment and Design Aspects.- Part III: Tunnel Lighting.- Purpose and Benefits of Tunnel Lighting.- Visual Performance and Sense of Confidence.- Standards and Recommendations.- Equipment and Design Aspects.- Appendix A: Illuminance Formulas.- Appendix B: Visibility Formulas.- Appendix C: Calculations of Qo from R-tables.

Fields of interest
Civil Engineering; Optics, Optoelectronics, Plasmonics and Optical Devices; Energy Efficiency (incl. Buildings)

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. XV, 350 p. 193 illus., 59 illus. in color. Hardcover
► **approx. *€ (D) 74,89 | € (A) 76,99 | sFr 93,50**
► **approx. € 69,99 | £62.99**
ISBN 978-3-319-11465-1

R. Wichert, Fraunhofer Institute for CGR, Darmstadt, Germany; **H. Klausing,** Frankfurt am Main, Germany (Eds)

Ambient Assisted Living

7. AAL-Kongress 2014 Berlin, Germany, January 21-22, 2014

In this book, leading authors in the field discuss developments of Ambient Assisted Living. The contributions have been chosen and invited at the 7th AAL congress, Berlin. It presents new technological developments which support the autonomy and independence of individuals with special needs. As the technological innovation raises also social issues, the book addresses micro and macro economical aspects of assistive systems and puts an additional emphasis on the ethical and legal discussion. The presentation is supported by real world examples and applications.

Features
► Presents many technological innovation for Ambient Assisted Living ► Discusses the micro and macro economical aspects ► Includes ethical and legal aspects

Contents
Interaction and Robotics.- Assistive Technologies.- Monitoring.- Interoperabilität.- Posters.- Community Conclusions.

Fields of interest
Biomedical Engineering; R & D/Technology Policy; Aging

Target groups
Research

Product category
Monograph

Due November 2014

2014. 250 p. (Advanced Technologies and Societal Change) Hardcover
► **approx. *€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **approx. € 79,99 | £72.00**
ISBN 978-3-319-11865-9

W. Wu, University of Agricultural Sciences, Vienna, Austria (Ed)

Recent Advances in Modeling Landslides and Debris Flows

This book consists of 20 chapters in which the authors deal with different theoretical and practical aspects of new trends in Collective Computational Intelligence techniques. Computational Collective Intelligence methods and algorithms are one the current trending research topics from areas related to Artificial Intelligence, Soft Computing or Data Mining among others. Computational Collective Intelligence is a rapidly growing field that is most often understood as an AI sub-field dealing with soft computing methods which enable making group decisions and processing knowledge among autonomous units acting in distributed environments. Web-based Systems, Social Networks, and Multi-Agent Systems very often need these tools for working out consistent knowledge states, resolving conflicts and making decisions.

Features
► Recent advances in modeling landslides and debris flows ► Presents contributions to the workshop on Recent Developments in the Analysis, Monitoring and Forecast of Landslides and Debris Flow, held in Vienna, Austria, September 9, 2013 ► Covers a broad spectrum of topics from material behavior, physical modeling over numerical simulation to applications and case studies

Contents
Material behavior: Tests and Theories.- Physical Modelling.-Numerical and Analytical Methods.- Applications and Case Studies.Numerical and Analytical Methods.- Applications and Case Studies.

Fields of interest
Geoengineering, Foundations, Hydraulics; Geotechnical Engineering & Applied Earth Sciences

Target groups
Research

Product category
Monograph

Due November 2014

2015. XII, 329 p. (Springer Series in Geomechanics and Geoengineering) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11052-3

L. Wu, Harbin Institute of Technology Space Control and Inertial Technology, Harbin, China; **X. Su,** Chongqing University, Chongqing, China; **P. Shi,** The University of Adelaide, Adelaide, SA, Australia

Fuzzy Control Systems with Time-Delay and Stochastic Perturbation

Analysis and Synthesis

This book presents up-to-date research developments and novel methodologies on fuzzy control systems. It presents solutions to a series of problems with new approaches for the analysis and synthesis of fuzzy time-delay systems and fuzzy stochastic systems, including stability analysis and stabilization, dynamic output feedback control, robust filter design, and model approximation. A set of newly developed techniques such as fuzzy Lyapunov function approach, delay-partitioning, reciprocally convex, cone complementary linearization approach are presented.

Features
► Presents the state-of-the-art of robust control, filtering, fault detection and model reduction areas ► Includes up-to-date research developments and novel methodologies on complex T-S fuzzy systems ► Demonstrates application potentials in nonlinear systems and complex sensor networks

Contents
Analysis and Synthesis of T-S Fuzzy Time-Delay Systems.- Analysis and Synthesis of T-S Fuzzy Stochastic Systems.- Fuzzy Control Applications.

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

Due October 2014

2015. XII, 332 p. (Studies in Systems, Decision and Control, Volume 12) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11315-9

A. Wymysłowski, Wroclaw University of Technology, Wrocław, Poland; **N. Iwamoto,** Honeywell Specialty Materials, Sunnyvale, CA, USA; **M. Yuen, H. Fan,** Hong Kong University of Science and Technology, Kowloon, Hong Kong SAR (Eds)

Molecular Modeling and Multiscaling Issues for Electronic Material Applications

Volume 2

Contents
Molecular Modeling of pH-Dependent Properties of Emeraldine Base Polyaniline for pH-Based Chemical Sensors.- Two Approaches of Study Cu/Epoxy Interface Enhancement with Benzenethiol Promoter.- Molecular Dynamics Simulation of Pore Formation Mechanism for Deposition of Poly (vinylidene fluoride-co-trifluoroethylene) on Gold Substrate.- Investigating the Influence of Moisture by Molecular Dynamics Simulations.- Analysis of the Adhesion Work with a Molecular Modeling Method and a Wetting Angle Measurement.- Using Coarse-Grained Molecular Models (Molecular-mesocale) of a Copper Oxide-Epoxy Interface to Obtain Stress-Strain Failure Predictions which Include Interfacial Roughness, Water and Filler Effects.- Establishment of the Mesoscale Parameters for Separation: A Non-Equilibrium Molecular Dynamics Model.- Mechanics of Graphene and Carbon Nanotubes under Uniaxial Compression and Tension.- Analysis of an Influence of a Conversion Level on Simulation Results of the Crosslinked Polymers.

Fields of interest
Electronics and Microelectronics, Instrumentation; Continuum Mechanics and Mechanics of Materials; Optical and Electronic Materials

Target groups
Research

Product category
Monograph

Due November 2014

2015. XVIII, 198 p. 154 illus., 129 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11088-2

Y. Xiang, Deakin University, Burwood, VIC, Australia; **D. Peng,** Sichuan University, Chengdu, China; **Z. Yang,** Guangdong University of Technology, Guangzhou, China

Blind Source Separation

Dependent Component Analysis

This book provides readers a complete and self-contained set of knowledge about dependent source separation, including the latest development in this field. The book gives an overview on blind source separation where three promising blind separation techniques that can tackle mutually correlated sources are presented. The book further focuses on the non-negativity based methods, the time-frequency analysis based methods, and the pre-coding based methods, respectively.

Features
► First book addressing blind separation of mutually correlated sources ► Presents novel blind source seperation algorithms that are applicable world applications ► Written by leading experts in the field

Contents
Introduction.- DCA Exploiting Nonnegativity.- DCA Utilizing Time-Frequency Analysis (TFA).- DCA Employing Precoding.- Summary and Future Work.

Fields of interest
Signal,Image and Speech Processing; Communications Engineering, Networks; Circuits and Systems

Target groups
Research

Product category
Brief

Due October 2014

2015. XII, 94 p. 30 illus., 13 illus. in color. (SpringerBriefs in Electrical and Computer Engineering / SpringerBriefs in Signal Processing) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-981-287-226-5

S. Yoshida, Southeastern Louisiana University, Hammond, LA, USA

Deformation and Fracture of Solid-State Materials

Field Theoretical Approach and Engineering Applications

This volume introduces a comprehensive theory of deformation and fracture to engineers and applied scientists. Here "comprehensive" means that the theory can describe all stages of deformation from elastic to plastic and plastic to fracturing stage on the same basis (equations).

Features
► Describes a highly original way to reveal loading hysteresis of a given specimen ► Presents a fundamentally new approach to deformation and fracture, which offers potential to open new applications ► Introduces the unique application of Electric Speckle-Pattern Interferometry—reading fringe patterns to connect them to current deformation status ► Details engineering applications of gauge theory ► Visualizes otherwise abstract concepts of local symmetry and gauge field

Contents
Introduction.- Quick Review of Theories of Elastic Deformation.-Quick Review of Field Theories.- Field Theory of Deformation and Fracture.- Interpretations of Deformation and Fracture Phenomena from Field Theoretical Viewpoint.- Optical Interferometry and Application to Material Characterization.- Experimental Observations.- Applications.

Fields of interest
Continuum Mechanics and Mechanics of Materials; Theoretical and Applied Mechanics; Characterization and Evaluation of Materials

Target groups
Research

Product category
Monograph

Due October 2014

2015. XIV, 250 p. 113 illus., 77 illus. in color.
Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-1-4939-2097-6

N. Yoshida, Tohoku Gakuin University, Miyagi, Japan

Seismic Ground Response Analysis

This book presents state-of-the-art information on seismic ground response analysis, and is not only very valuable and useful for practitioners but also for researchers.

Features
► Includes numerous case studies illustrating earthquake response analysis ► Presents test data and empirical equations ► Comprehensive write-up for practical engineering

Contents
Propagation of earthquake waves in the ground and fundamentals of earthquake motion.- Introduction of seismic ground response analysis.- Input earthquake motions.- Fundamentals of soil mechanics.- In-situ soil testing.- Laboratory test and assemble of test result.- Estimation of mechanical soil properties.- Modeling of mechanical soil properties.- Equation of motion.- Equation of motion – spatial modeling.- Solution in time.- Evaluation of damping.- Evaluation of accuracy and earthquake motion indices.- Simulation of vertical arrays.- Effect of various factors from case studies.

Fields of interest
Geoengineering, Foundations, Hydraulics; Geotechnical Engineering & Applied Earth Sciences

Target groups
Research

Product category
Monograph

Due December 2014

Original Japanese edition published by Kajima Institute Publishing, Kajima, 2010

2015. VII, 270 p. 269 illus., 44 illus. in color.
(Geotechnical, Geological and Earthquake Engineering, Volume 36) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-94-017-9459-6

K. You, Tsinghua University, Beijing, China; **N. Xiao, L. Xie,** Nanyang Technological University, Singapore, Singapore

Analysis and Design of Networked Control Systems

This monograph focuses on characterizing the stability and performance consequences of inserting limited-capacity communication networks within a control loop.

Features
► Demonstrates how the effect of incorporating a network within a control loop can be characterized as part of the control network design process ► Shows the reader how to establish stability conditions for lossy networks in terms of channel capacity and data rate ► Parallels control theory with information theory to show how topological entropy can be used to assist in control of multi-agent networks

Contents
From the Contents: Overview of Networked Control Systems.- Basics of Information, Communications and Control.- Data Rate Theorem for Stabilization of Linear Systems over Perfect Channels.- Data Rate Theorem for Stabilization of Linear Systems over Binary Erasure Channels.- Data Rate Theorem for Stabilization of Linear Systems over Gilbert–Elliott Channels.- Network Requirement for Stabilization of Linear Systems over Fading Channels.- Attainability of the Minimum Data Rate via Logarithmic Quantization.- Stabilization of Linear Systems via Logarithmic Quantization.

Fields of interest
Control; Computer Communication Networks; Communications Engineering, Networks

Target groups
Research

Product category
Monograph

Due January 2015

2015. XII, 309 p. 60 illus., 10 illus. in color.
(Communications and Control Engineering) Hardcover
► **approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **approx. € 129,99 | £117.00**
ISBN 978-1-4471-6614-6

D. Zhou, Alcatel-Lucent Inc., Ottawa, ON, Canada;
W. Song, University of New Brunswick, Fredericton, NB, Canada

Multipath TCP for User Cooperation in Wireless Networks

This brief presents several enhancement modules to Multipath Transmission Control Protocol (MPTCP) in order to support stable and efficient multipath transmission with user cooperation in the Long Term Evolution (LTE) network. The text explains how these enhancements provide a stable aggregate throughput to the upper-layer applications; guarantee a steady goodput, which is the real application-layer perceived throughput; and ensure that the local traffic of the relays is not adversely affected when the relays are forwarding data for the destination. The performance of the proposed solutions is extensively evaluated using various scenarios. The simulation results demonstrate that the proposed modules can achieve a stable aggregate throughput and significantly improve the goodput by 1.5 times on average. The brief also shows that these extensions can well respect the local traffic of the relays and motivate the relay users to provide the relaying service.

Contents
Introduction.- User Cooperation and Multipath Transmission.- System Modelling.- Subset-sum Based Relay Selection (SSRS).- Adaptive Congestion Control (ACC).- Differentiated Packet Forwarding (DPF).- Bandwidth Sharing for User Cooperation.- Conclusions and Future Directions.

Fields of interest
Communications Engineering, Networks; Computer Communication Networks

Target groups
Research

Product category
Brief

Due October 2014

2014. XV, 90 p. 26 illus. (SpringerBriefs in Computer Science) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 54,50**
► **approx. € 49,99 | £36.99**
ISBN 978-3-319-11700-3

A. L. Zuyev, National Academy of Sciences of Ukraine, Donetsk, Ukraine

Partial Stabilization and Control of Distributed Parameter Systems with Elastic Elements

This monograph provides a rigorous treatment of problems related to partial asymptotic stability and controllability for models of flexible structures described by coupled nonlinear ordinary and partial differential equations or equations in abstract spaces. The text is self-contained, beginning with some basic results from the theory of continuous semigroups of operators in Banach spaces.

Features
► The first systematic study of the partial stabilization problem with infinite degrees of freedom important for the study of mechanical systems ► Control schemes allow the stabilization of flexible satellites and robot manipulators with non-collocated sensors and actuators ► Reduced models and spillover analysis provide the basis for a new characterization of reachable states of flexible structures

Contents
Basic Results from the Theory of Continuous Semigroups of Operator.- Partial Asymptotic Stability.- Stabilization of a Rotating Body with Euler–Bernoulli Beams.- Reachable Sets and Controllability Conditions.- Observer-Based Stabilization of a Manipulator Based on the Timoshenko Beam Model.- Control and Stabilization of a Rotating Kirchhoff Plate.-Appendices.

Fields of interest
Control; Systems Theory, Control; Structural Mechanics

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 214 p. 16 illus., 1 illus. in color. (Lecture Notes in Control and Information Sciences, Volume 458) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11531-3

B. Droste-Franke, Ea European Academy, Bad Neuenahr-Ahrweiler, Germany; **M. Carrier,** Bielefeld University, Bielefeld, Germany; **M. Kaiser,** University of Bergen, Bergen, Norway; **M. Schreurs,** Free University of Berlin, Berlin, Germany; **C. Weber,** University of Duisburg-Essen, Essen, Germany; **T. Ziesemer,** Maastrich University, Maastricht, The Netherlands

Improving Energy Decisions

Towards Better Scientific Policy Advice for a Safe and Secure Future Energy System

Managing a successful transition of the current energy supply system to less carbon emitting options, ensuring a safe and secure supply during the whole process and in the long term, is one of the largest challenges of our time.

Features
► Tackles ethical and social issues of the transition to a low-carbon energy system ► Guides through the various challenges of scientific advisors to politics ► Creates awareness for conflicting interests, interdisciplinary and multi-factorial issues and pitfalls

Contents
Introduction.- The Framework for Developing Long-Term Viable Energy Systems.- Prospects and Limits of Scientific Policy Advice for Future Energy Systems.- Characterisation of Recent Analyses of the Energy System.- Specific Economic Problems and Uncertainties in the Context of Energy Systems.- Energy System 2050 – Impacts of Uncertainties on the Optimal Electricity Generation Mix.- Political Challenges in Managing Transitions of Energy Systems.- Conclusions and Recommendations.

Fields of interest
Energy Systems; Ethics; Energy Technology

Target groups
Research

Product category
Monograph

Due October 2014

2015. XLVII, 249 p. 31 illus., 12 illus. in color. (Ethics of Science and Technology Assessment, Volume 42) Hardcover
► ***€ (D) 80,24 | € (A) 82,49 | sFr 100,00**
► **€ 74,99 | £67.99**
ISBN 978-3-319-11345-6

K. Gopalakrishnan, Iowa State University, Ames, IA, USA; **W. J. Steyn,** University of Pretoria, Pretoria, South Africa; **J. Harvey,** University of California, Davis, CA, USA (Eds)

Climate Change, Energy, Sustainability and Pavements

Climate change, energy production and consumption, and the need to improve the sustainability of all aspects of human activity are key inter-related issues for which solutions must be found and implemented quickly and efficiently. To be successfully implemented, solutions must recognize the rapidly changing socio-techno-political environment and multi-dimensional constraints presented by today's interconnected world.

Features
► Provides an integrated perspective on understanding the impacts of climate change, energy and sustainable development on transportation infrastructure systems ► Presents recent technological innovations and emerging concepts in the field of green and sustainable transportation infrastructure systems with a special focus on highway and airport pavements ► Written by leading experts in the field

Contents
From the Contents: Pavement Life Cycle Assessment.- Application of LCA Results to Network-level Highway Pavement Management.- The Product Process Service Life Cycle Assessment Framework to Estimate GHG Emissions for Highways.- Anticipating and Responding to Pavement Performance as Climate Changes.- Climate Change Scenarios and their potential effects on Transportation Infrastructure Systems.

Fields of interest
Renewable and Green Energy; Climate Change Management and Policy; Transportation

Target groups
Research

Product category
Monograph

Due October 2014

2014. VIII, 556 p. 147 illus., 7 illus. in color. (Green Energy and Technology) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-662-44718-5

D. Green, Green Management Services, Fort Myers, FL, USA

Home Energy Information

Measuring and Managing Energy Consumption in Residential Buildings

The book contains the data required to measure and manage energy consumption in residential buildings. This book describes energy information in detail so that any homeowner can measure energy use on a continuing basis, make decisions regarding how to conserve energy, implement improvements, then monitor the results of those improvements. In the past, it has been difficult to collect residential energy consumption data in real-time. This book helps overcome that challenge by teaching readers how to use self-installed data collection devices that monitor consumption of circuits or appliances, along with freely available information to benchmark against other homes in the area.

Features
► Explains how to collect and analyze energy consumption data to guide home improvements that maximize efficiency ► Teaches readers about energy units of measure and formulas for benchmarking energy data ► Includes free, easy-to-use web tools that collect, store and analyze home energy data ► Introduces ideas on how renewable energy can help reduce energy costs

Contents
Introduction.- Units of Measure.- Measuring Energy Consumption.- Analysis.- Conserving Energy.- Monitoring Devices.- Renewable Energy Sources.- Conclusion.

Fields of interest
Energy Efficiency (incl. Buildings); Energy Technology; Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Professional/practitioner

Product category
Brief

Due October 2014

2014. XI, 65 p. 13 illus., 12 illus. in color. (SpringerBriefs in Energy) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11348-7

H. Huang, University of Chinese Academy of Sciences, Beijing, China; **J. Huang,** University of Nebraska, Lincoln, NE, USA (Eds)

Organic and Hybrid Solar Cells

This book delivers a comprehensive evaluation of organic and hybrid solar cells and identifies their fundamental principles and numerous applications. Great attention is given to the charge transport mechanism, donor and acceptor materials, interfacial materials, alternative electrodes, device engineering and physics, and device stability. The authors provide an industrial perspective on the future of photovoltaic technologies.

Features
► Describes the fundamental mechanism, materials properties, device engineering and lifetime stability of organic and hybrid solar cells ► Features an overview of organic and hybrid solar cells from an industrial perspective ► Offers both historical and cutting-edge examples of organic solar cell research

Contents
Introduction to Organic/Hybrid Solar Cells (OSC).- Charge Transport and Recombination in OSC.- Donor Materials for OSC.- N-type Electron Accepting Materials for OSC.- Interfacial Layers in OSC.- Alternative Electrodes for OSC.- Inverted Organic Solar Cells.- Stability of OSC.- Research Progress and Manufacturing Techniques for Large Area Polymer Solar Cells.- Hybrid Solar Cells.

Fields of interest
Energy Storage; Energy Technology; Characterization and Evaluation of Materials

Target groups
Research

Product category
Monograph

Due November 2014

2014. X, 429 p. 165 illus., 104 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10854-4

J. Khazaii, Southern Polytechnic State University, Marietta, GA, USA

Energy-Efficient HVAC Design

An Essential Guide for Sustainable Building

This book provides readers with essential knowledge enabling the successful design of today's new energy efficient HVAC systems. The author introduces important concepts such as Knowledge Categorization, Performance Based Design Standards, and Quantification of Uncertainty in Energy Modeling for Buildings. Pivotal topics that all HVAC and architectural engineers must master in order to navigate the green building renaissance are given focused attention, including the role of renewables, air quality, automatic controls, and thermal comfort. Relevant ASHRAE standards, as well as sustainability scoring systems such as BREEAM, HQE, LEED and CASBEE are explained in depth.

Features
► Provides practical guidance when energy savings are a main design focus ► Balances tried-and-true engineering concepts with cutting-edge techniques ► Includes in depth information on performance-based design standards and how to achieve them

Contents
A challenging task.- Integrated Design.- Categorizing Knowledge.- Frequently used Codes and Standards.- Performance Based Standards.- Indoor Air Quality.- Protective Design Practice.- HVAC Systems.- Building Automatic Controls.- Energy Modeling.- Sustainability and Energy Conservation Scoring Systems.- Renewable Energy & Sum-Zero Energy Building.- Uncertainty and Risk Management.

Fields of interest
Renewable and Green Energy; Civil Engineering; Renewable and Green Energy

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2014. XV, 165 p. 44 illus., 38 illus. in color. Hardcover
► ***€ (D) 96,29 | € (A) 98,99 | sFr 120,00**
► **€ 89,99 | £81.00**
ISBN 978-3-319-11046-2

U. Roy, Bengal Institute of Technology and Management, Kolkata, India; **M. Majumder,** National Institute of Technology, Agartala, India

Impact of Climate Change on Small Scale Hydro-turbine Selections

Hydropower is found to be one of the most reliable and inexpensive options for renewable energy which was now widely been adopted by many countries to substitute fossil fuel sources. This Brief highlights the impact of climate change on hydropower plants, especially on the turbine design, as turbines are responsible for optimal conversion and regular energy production. The vulnerability of turbines is analyzed with the help of Artificial Neural Networks, followed by Multi Criteria Decision Making methods for development of intelligent indices to represent the level of vulnerability of turbines due to the change in climate.

Contents
From the Contents: Introduction.- Small Scale Hydro Power Plant.- Objective of the Present Investigation.- Brief Methodology.- Climate Change and its Impacts.- Climate change : cause and effects.- Impacts on Hydrological Cycle.- Impacts on Watersheds.- IPCC Scenarios.- Climate Models.- Hydropower Plant.- Working Principle.

Fields of interest
Renewable and Green Energy; Climate Change/Climate Change Impacts; Water Industry/Water Technologies

Target groups
Professional/practitioner

Product category
Brief

Due March 2015

2014. 125 p. 40 illus., 10 illus. in color. (SpringerBriefs in Energy) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-981-287-238-8

T. Sharpe, Glasgow School of Art, Glasgow, Montserrat (Ed)

Building Integrated Renewable Energy

Technical and Aesthetic Performance of Renewable Energy Systems on Buildings

Building Integrated Renewable Energy examines the current state of the art for building integrated renewable systems. It provides an overview of current and emerging technologies and provides a series of sections discussing specific technologies on buildings and the nature of both technical and visual integration; and provides a series of case studies of effective systems. Building Integrated Renewable Energy contextualises the debates around renewable energy systems on buildings, identifying different perspectives in relation to architectural design. It discusses current approaches and examines, through case studies, examples of successful technical and visual integration.

Features
► Includes illustrated case studies of both new-build and existing buildings ► Examines the current state of the art concerning the technical and aesthetic integration of renewable energy technologies on buildings ► Gives the reader an understanding of how renewable energy systems can be integrated on to buildings in ways that deliver both technical and visual performance

Contents
Context.- Building Integrated Wind Systems.- Wind Case Studies.- Overview of PV Systems and Types.- PV Case Studies.- Future Directions.- Conclusion, Summary of Discussion, Areas of Further Investigation.

Fields of interest
Energy Efficiency (incl. Buildings); Renewable and Green Energy; Architecture, general

Target groups
Professional/practitioner

Product category
Monograph

Due February 2015

2015. 250 p. (Green Energy and Technology)
Hardcover
► approx. * € (D) 106,95 | € (A) 109,95 | sFr 143,50
► approx. € 99,95 | £90.00
ISBN 978-1-4471-6466-1

A. Bevan, Queen Mary University of London, London, UK; **T. Mannel,** University of Siegen, Siegen, Germany; **B. Yabsley,** University of Sidney, Sidney, NSW, Australia; **B. Golob,** University of Ljubljana, Ljubljana, Slovenia; **S. Prell,** Iowa State University, Ames, IA, USA (Eds)

Physics of the B Factories

This comprehensive work thoroughly introduces and reviews the set of results from Belle and BaBar - after more than two decades of independent and complementary work - all the way from the detectors and the analysis tools used, up to the physics results, and the interpretation of these results. The world's two giant B Factory collaborations, Belle at KEK and BaBar at SLAC, have successfully completed their main mission to discover and quantify CP violation in the decays of B mesons. CP violation is a necessary requirement to distinguish unambiguously between matter and antimatter. The shared primary objective of the two B Factory experiments was to determine the shape of the so-called unitarity triangle, an abstract triangle representing interactions of quarks, the elementary constituents of matter. The area of the triangle is a measure of the amount of CP violation associated with the weak force.

Contents
From the Contents: Part I The Facilities.- The B Factories.- The Detectors and Collaborations.- Datataking and Monte Carlo Production summary.- Part II Tools and Methods.- Vertexing.- Analysis optimization.- Particle identification.- Flavor tagging.- Background discrimination.- Part III The Results and their Interpretation.- The CKM matrix and the Kobayashi-Maskawa mechanism.- B-physics.

Fields of interest
Particle Acceleration and Detection, Beam Physics; Cosmology; Measurement Science and Instrumentation

Target groups
Research

Product category
Monograph

Due March 2015

2015. 900 p. Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-3-662-44990-5

V. Bromm, University of Texas, Austin College of Natural Sciences, Austin, TX, USA

The First Stars

Features
► Devoted to one of the great outstanding challenges in modern cosmology and astrophysics ► Extremely timely topic in view of the forthcoming launch of the James Webb Space Telescope ► First advanced level text book on the field of first stars

Contents
INTRODUCTION: the first stars and galaxies as key drivers of early cosmic evolution; key science for the upcoming JWST.- THE COSMOLOGICAL CONTEXT: CDM cosmology; cooling in primordial gas; Rees-Ostriker criterion; prediction of minihalos as sites of first star formation.- POPULATION III STAR FORMATION: gravitational instability and initial collapse; protostellar accretion; feedback processes: the final stellar mass; binaries, multiples, clusters; neglected processes in the 'Standard Model' – magnetic fields, cosmic rays.- DARK MATTER AND THE FIRST STARS: warm dark matter: - implies different star formation sites – suppresses star formation rate; 'Dark Stars': DM heating - Pop III red supergiants.- IMPACT ON COSMOLOGY: radiative feedback and the beginning of reionization; chemical feedback: the first supernova explosions.- TRANSITION TO NORMAL STAR FORMATION: physics of the 'Critical Metallicity'; turbulence and formation of star clusters.- FORMATION OF THE FIRST GALAXIES.- OBSERVATIONAL SIGNATURE: recombination line radiation; supernova searches with JWST; stellar archaeology; cosmic backgrounds: 21 cm radiation, infrared background.- EPILOGUE

Fields of interest
Astronomy, Astrophysics and Cosmology; Nuclear Physics, Heavy Ions, Hadrons

Target groups
Graduate

Product category
Monograph

Due March 2015

2015. 240 p. 80 illus., 10 illus. in color. (Astronomy and Astrophysics Library) Hardcover
► **approx. *€ (D) 74,85 | € (A) 76,95 | sFr 100,50**
► **approx. € 69,95 | £62.99**
ISBN 978-3-642-11964-4

X. Calmet, University of Sussex, Brighton, UK (Ed)

Quantum Aspects of Black Holes

Beginning with an overview of the theory of black holes by the editor, this book presents a collection of ten chapters by leading physicists dealing with the variety of quantum mechanical and quantum gravitational effects pertinent to black holes.

Features
► An in depth look at the possible roles of quantum phenomena in black hole physics ► A substantial introduction by the editor integrates these different aspects into the larger picture of black holes ► Contributions by top physicists whose joint aim is the reconciliation of quantum mechanics and gravity

Contents
Fundamental Physics with Black Holes (Xavier Calmet).- Black holes and thermodynamics - The first half century (Daniel Grumiller, Robert McNees and Jakob Salzer).- The Firewall Phenomenon (R. B. Mann).- Monsters, Black holes and Entropy (Stephen D. H. Hsu).- Primordial Black Holes: sirens of the early Universe (Anne M. Green).- Self-gravitating Bose-Einstein condensates (Pierre-Henri Chavanis).- Quantum Amplitudes in Black-Hole Evaporation with Local Supersymmetry (P.D.D'Eath and A.N.St.J.Farley).- Hawking radiation from higher-dimensional black holes (Panagiota Kanti and Elizabeth Winstanley).- Black Holes at the Large Hadron Collider (Greg Landsberg).- Minimum length effects in black hole physics (Roberto Casadio, Octavian Micu, Piero Nicolini).

Fields of interest
Classical and Quantum Gravitation, Relativity Theory; Cosmology; Elementary Particles, Quantum Field Theory

Target groups
Research

Product category
Monograph

Due January 2015

2015. 260 p. 35 illus., 5 illus. in color. (Fundamental Theories of Physics, Volume 178) Hardcover
► ***€ (D) 90,94 | € (A) 93,49 | sFr 113,50**
► **€ 84,99 | £76.50**
ISBN 978-3-319-10851-3

K. P. Ghatak, National Institute of Technology, Agartala, India

Einstein's Photoemission

Emission from Heavily-Doped Quantized Structures

This monograph solely investigates the Einstein's Photoemission(EP) from Heavily Doped(HD) Quantized Structures on the basis of newly formulated electron dispersion laws. The materials considered are quantized structures of HD non-linear optical, III-V, II-VI, Ge, Te, Platinum Antimonide, stressed materials, GaP, Gallium Antimonide, II-V, Bismuth Telluride together with various types of HD superlattices and their Quantized counterparts respectively. The EP in HD opto-electronic materials and their nanostructures is studied in the presence of strong light waves and intense electric fields that control the studies of such quantum effect devices.

Features
► Thorough discussion of the importance of measurement of band gap in optoelectronic materials ► Features100 open research problems which form the integral part of the text ► Covers a wide range of different technologically important electronic compounds in detail

Contents
From the Contents: Part I Influence of Quantum Confinement on the EP from Non-Parabolic Semiconductors.- The EP from Quantum Wells (QWs) of Heavily Doped(HD) Non-Parabolic Semiconductors.- Part II The EP from HD III-V Semiconductors and Their Quantized Counter Parts.- The EP from HD Kane Type Semiconductors.

Fields of interest
Quantum Physics; Optics, Optoelectronics, Plasmonics and Optical Devices; Optical and Electronic Materials

Target groups
Research

Product category
Monograph

Due October 2014

2015. 510 p. 70 illus. (Springer Tracts in Modern Physics, Volume 262) Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11187-2

H. Lüth, Peter Grünberg Institute, Aachen, Germany

Solid Surfaces, Interfaces and Thin Films

This book emphasises both experimental and theoretical aspects of surface, interface and thin-film physics. As in previous editions the preparation of surfaces and thin films, their atomic and morphological structure, their vibronic and electronic properties as well as fundamentals of adsorption are treated.

Features
► Expanded and updated edition of a very successful textbook ► Places emphasis both on theory and experiment, up to latest developments, such as giant magnetoresistance and topological insulators ► Covers collective phenomena at interfaces, superconductivity, and magnetism ► Includes easy-to-follow mathematical derivations ► Expanded coverage includes topics such as the effect of spin-orbit coupling on surface states, plus well-established experimental techniques such as X-ray diffraction and reflection anisotropy spectroscopy

Contents
Surface and Interface Physics: Its Definition and Importance.- Preparation of Well-Defined Surfaces, Interfaces and Thin Films.- Morphology and Structure of Surfaces, Interfaces and Thin Films.- Scattering from Surfaces and Thin Films.- Surface Phonons.- Electronic Surface States.- Space-Charge Layers at Semiconductor Inferfaces.- Metal–Semiconductor Junctions and Semiconductor Heterostructures.- Collective Phenomena at Interfaces:Superconductivity and Ferromagnetism.- Adsorption on Solid Surfaces.

Fields of interest
Surface and Interface Science, Thin Films; Solid State Physics; Characterization and Evaluation of Materials

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

6th ed. 2015. XVIII, 578 p. 442 illus., 17 illus. in color. (Graduate Texts in Physics) Hardcover
► ***€ (D) 96,29 | € (A) 98,99 | sFr 120,00**
► **€ 89,99 | £81.00**
ISBN 978-3-319-10755-4

D. Mecerreyes, UPV-EHU, Donostia-San Sebastian, Spain (Ed)

Applications of Ionic Liquids in Polymer Science and Technology

This book summarizes the latest knowledge in the science and technology of ionic liquids and polymers in different areas. Ionic liquids (IL) are actively being investigated in polymer science and technology for a number of different applications. In the first part of the book the authors present the particular properties of ionic liquids as speciality solvents. The state-of-the art in the use of ionic liquids in polymer synthesis and modification reactions including polymer recycling is outlined.

Features
► Forms the first specialized book in the scientifically burgeoning area of ionic liquids and polymers ► Collects chapter contributions by international experts in their respective fields of ionic liquids and polymers ► Offers a comprehensive overview of the state of the art in this multidisciplinary area ► Addresses researchers and developers in both science and industry

Contents
Introduction Ionic Liquids and Polymers: Versatile Combination of Materials.- Poly(ionic Liquids).- Structurally controlled Polymeric Ionic Liquids and related Block Copolymers.- Ionic Liquids and Polymers as Stimuli Responsive Materials.- Ionic Liquids and Polymers in analytical environmental applications.- Ionic Liquids and Polymers in energy.- Ionic Liquids and Polymers in Nanomedicine.- Ionic Liquids and Polymers in Gas Separation.- Ionic Liquids as Polymer Additives.

Fields of interest
Soft and Granular Matter, Complex Fluids and Microfluidics; Polymer Sciences

Target groups
Research

Product category
Handbook

Due January 2015

2015. 500 p. 120 illus. in color. Hardcover
► ***€ (D) 266,43 | € (A) 273,90 | sFr 331,50**
► **€ 249,00 | £224.50**
ISBN 978-3-662-44902-8

M. Ohtsu, The University of Tokyo, Tokyo, Japan; **T. Yatsui,** University of Tokyo, Tokyo, Japan (Eds)

Progress in Nanophotonics 3

This book focuses on the recent progress in nanophotonics technology to be used to develop novel nano-optical devices, fabrication technology and advanced systems. It reviews light-emitting diodes and lasers made of silicon bulk crystals in which the light emission principle is based on dressed-photon-phonons. Further topics include: theoretical studies of optoelectronic properties of molecular condensates for organic solar cells and light-emitting devices, the basics of topological light beams together with their important properties for laser spectroscopy, spatially localized modes emerging in nonlinear discrete dynamic systems and theoretical methods to explore the dynamics of nanoparticles by the light-induced force of tailored light fields under thermal fluctuations. These topics are reviewed by leading scientists. This overview is a variable resource for engineers and scientists working in the field of nanophotonics.

Features
► Reviews recent work in optical nanotechnology to develop novel nano-optical devices ► Covers a wide range of topics from basic studies to applications of nanophotonics ► Written by leading scientists in the field

Contents
Preface.- Silicon Light-Emitting Diodes and Lasers Using Dressed Photons.- Theoretical Analysis on Optoelectronic Properties of Organic Materials: Solar Cells and Light-Emitting Transistors.- Laser Spectroscopy Using Topological Light Beams.- Localized Modes in Nonlinear Discrete Systems.

Fields of interest
Laser Technology, Photonics; Nanotechnology; Nanotechnology and Microengineering

Target groups
Research

Product category
Monograph

M. J. Oliveira, University of São Paulo, São Paulo, Brazil; **T. Tomé Martins de Castro,** University of Sao Paulo, Sao Paulo, Brazil

Stochastic Dynamics and Irreversibility

This textbook presents an exposition of stochastic dynamics and irreversibility. It comprises the principles of probability theory and the stochastic dynamics in continuous spaces, described by Langevin and Fokker-Planck equations, and in discrete spaces, described by Markov chains and master equations. Special concern is given to the study of irreversibility, both in systems that evolve to equilibrium and in nonequilibrium stationary states. Attention is also given to the study of models displaying phase transitions and critical phenomena both in thermodynamic equilibrium and out of equilibrium.

Features
► Equips readers with a detailed mathematical and theoretical framework suitable for in depth study of stochastic dynamics ► Carefully balanced, with detail and clarity, to enable fast progress ► Outreach to equilibrium and non-equilibrium thermodynamics

Contents
Random Variables.- Sequence of Independent Variables.- Langevin equation.- Fokker-Planck Equation I.- Fokker-Planck Equation II.- Markov Chains.- Master Equation I.- Master Equation II.- Phase Transitions and Criticality.- Reactive Systems.- Glauber Model.- Systems with Inversion Symmetry.- Systems with Absorbing States.- Population Dynamics.- Probabilistic Cellular automata.- Reaction-Diffusion Processes.- Random Sequential Adsoprtion.- Percolation.

Fields of interest
Mathematical Methods in Physics; Math. Applications in Chemistry; Nonlinear Dynamics

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

B. Shizgal, University of British Columbia, Vancouver, BC, Canada

Spectral Methods in Chemistry and Physics

Applications to Kinetic Theory and Quantum Mechanics

This book is a pedagogical presentation of the application of spectral and pseudospectral methods to kinetic theory and quantum mechanics. There are additional applications to astrophysics, engineering, biology and many other fields. The main objective of this book is to provide the basic concepts to enable the use of spectral and pseudospectral methods to solve problems in diverse fields of interest and to a wide audience.

Features
► The first book to describe spectral/pseudospectral methods applied to diverse applications in chemistry and physics ► Provides a unique demonstration of the overlap of the numerical treatment of problems in kinetic theory and quantum mechanics ► Illustrates methods that emphasize the use of non-classical basis sets

Contents
Preface.- Introduction to Spectral/Pseudospectral Methods.- Polynomial Basis functions and Quadratures.- Numerical Evaluation of Integrals and Derivatives.- Representation of Functions in Basis Sets.- Integral Equations in the Kinetic Theory of Gases and Related Topics.- Spectral and Pseudospectral Methods of Solution of the Fokker-Planck and Schrödinger Equations.- Index.

Fields of interest
Theoretical, Mathematical and Computational Physics; Physical Chemistry; Math. Applications in Chemistry

Target groups
Research

Product category
Monograph

Due November 2014

2015. XIII, 231 p. 123 illus., 25 illus. in color. (Nano-Optics and Nanophotonics) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11601-3

Due November 2014

2015. X, 374 p. 44 illus. (Graduate Texts in Physics) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11769-0

Due January 2015

2015. XX, 456 p. 102 illus., 2 illus. in color. (Scientific Computation) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-94-017-9453-4

O. Shulika, I. Sukhoivanov, Universidad de Guanajuato, Salamanca, Mexico (Eds)

Advanced Lasers

Laser Physics and Technology for Applied and Fundamental Science

Contents

1 Recent Progress in Polarization-Bistable VCSELs and Their Applications to All-Optical Signal Processing.- 2 Tunable Lasers based on Multimode Interference Effects.- 3 Whispering gallery mode microdisk resonator with dynamic material properties.- 4 Superradiant lasing and collective dynamics of active centers with polarization lifetime exceeding photon lifetime.- 5 The control of energy, temporal and spatial characteristics a microchip laser with active output mirror.- 6 Recent Advances in Secure Transmission with Chaotic Carriers.- 7 Superwicking surfaces produced by femtosecond laser.- 8 Optical processors as conceptual tools for designing nonconventional devices.- 9 Description of the Dynamics of Charged Particles in Electric Fields: An Approach using Fractional Calculus.- 10 Sub- and nanosecond pulsed lasers applied to the generation of broad spectrum in standard and microstructured optical fibers.- 11 Extremely high power CO2 laser beam correction.- 12 Measurements of intense and wide-aperture laser radiation parameters with thinwire bolometers.- 13 Spectral and lasing characteristics of some red and NIR laser dyes in silica matrices.- 14 Interpretation of the time delay in the ionization of Coulomb systems by attosecond laser pulses.

Fields of interest

Laser Technology, Photonics; Optics, Optoelectronics, Plasmonics and Optical Devices; Microwaves, RF and Optical Engineering

Target groups

Research

Product category

Monograph

B. M. Smirnov, Russian Academy of Sciences Joint Institute for High Temperatures, Moscow, Russia

Theory of Gas Discharge Plasma

This book presents the theory of gas discharge plasmas in a didactical way. It explains the processes in gas discharge plasmas. A gas discharge plasma is an ionized gas which is supported by an external electric field. Therefore its parameters are determined by processes in it. The properties of a gas discharge plasma depend on its gas component, types of external fields, their geometry and regimes of gas discharge. Fundamentals of a gas discharge plasma include elementary, radiative and transport processes which are included in its kinetics influence. They are represented in this book together with the analysis of simple gas discharges. These general principles are applied to stationary gas discharge plasmas of helium and argon. The analysis of such plasmas under certain conditions is theoretically determined by numerical plasma parameters for given regimes and conditions.

Features

► Step-by-step explanation of the processes in gas discharge plasmas ► Covers processes and properties of helium and argon plasmas ► Provides useful relations for gas discharge plasmas

Contents

Introduction.- Processes in Gas Discharge Plasmas.- Kinetics and Transport Phenomena in Gas Discharge Plasmas.- Processes in Gas Discharge.- Helium and Argon Gas Discharge Plasmas.

Fields of interest

Plasma Physics; Thermodynamics; Mathematical Methods in Physics

Target groups

Research

Product category

Monograph

S. E. Spagnolie, University of Wisconsin–Madison, Madison, WI, USA (Ed)

Complex Fluids in Biological Systems

Experiment, Theory, and Computation

Features

► Presents fundamental experimental observations in the study of non-Newtonian fluid mechanics and biomaterials ► Introduces experimental, theoretical, and computational methods for studying a wide range of problems in living systems ► Covers the basic theoretical structure needed to understand complex fluid-body interactions, both qualitatively and quantitatively ► Provides examples of experiments that can be explored without a laboratory or expensive machinery ► Features problem sets at the end of chapters covering theoretical material written by the authors and designed for use in their own courses

Contents

Part I: Introduction to Complex Fluids.- Introduction to complex fluids.- Complex fluids and soft structures in the human body.- Part II: Rheology of Complex Biological Fluids.- Theoretical microrheology.- Membrane rheology.- Rheology and mechanics of the cell cytoskeleton.- Experimental challenges of shear rheology: how to avoid bad data.-Part III: Locomotion and Active Matter.- Locomotion through complex fluids: an experimental view.- Theory of locomotion through complex fluids.- Theory of active suspensions.- Part IV: Computational Methods.- Computational challenges for simulating strongly elastic flows in biology.- Cell distribution and segregation phenomena during blood flow.

Fields of interest

Biophysics and Biological Physics; Engineering Fluid Dynamics; Cell Physiology

Target groups

Research

Product category

Monograph

Due December 2014

2014. 250 p. 132 illus., 41 illus. in color. (Springer Series in Optical Sciences, Volume 193) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-94-017-9480-0

Due December 2014

2015. 400 p. 195 illus. (Springer Series on Atomic, Optical, and Plasma Physics, Volume 84) Hardcover
► *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-3-319-11064-6

Due November 2014

2015. XX, 438 p. 100 illus., 30 illus. in color. (Biological and Medical Physics, Biomedical Engineering) Hardcover
► *€ (D) 181,89 | € (A) 186,99 | sFr 226,50
► € 169,99 | £153.00
ISBN 978-1-4939-2064-8

S. Tomczyk, National Center for Atmospheric Research, Boulder, CO, USA; **J. Zhang,** George Mason University, Fairfax, VA, USA; **T. Bastian,** National Radio Astronomy Observatory, Charlottesville, VA, USA (Eds)

Coronal Magnetometry

Contents

Preface.- From Forbidden Coronal Lines to Meaningful Coronal Magnetic Fields.- Magnetic Field Extrapolations into the Corona: Success and Future Improvements.- Three-Dimensional Nonlinear Force-Free Field Reconstruction of Solar Active Region 11158 by Direct Boundary Integral Equation.- Magnetic Field Diagnostics and Spatio-Temporal Variability of the Solar Transition Region.- Magnetography of Solar Flaring Loops with Microwave Imaging Spectropolarimetry.- Measuring the Magnetic-Field Strength of the Quiet Solar Corona Using "EIT Waves".- Observations of a Quasi-periodic, Fast-Propagating Magnetosonic Wave in Multiple Wavelengths and Its Interaction with Other Magnetic Structures.- Coronal Cavity Survey: Morphological Clues to Eruptive Magnetic Topologies.- Polarimetric Properties of Flux Ropes and Sheared Arcades in Coronal Prominence Cavities.- Observations of Coronal Mass Ejections with the Coronal Multichannel Polarimeter.- Near-Limb Zeeman and Hanle Diagnostics.- 3D Coronal Density Reconstruction and Retrieving the Magnetic Field Structure during Solar Minimum.

Fields of interest

Extraterrestrial Physics, Space Sciences; Atmospheric Sciences

Target groups

Research

Product category

Monograph

Due December 2014

Originally published in Solar Physics, Vol. 288, Issue 2, 2013 and Vol. 289, Issue 8, 2014

2014. V, 216 p. 79 illus., 64 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-1-4939-2037-2

P. C. van der Kruit, University of Groningen, Groningen, The Netherlands

Jacobus Cornelius Kapteyn

Born Investigator of the Heavens

Jacobus C. Kapteyn (1851-1922) was a Dutch astronomer who contributed heavily to major catalogs of star positions, such as the Cape Photographic Durchmusterung and the Harvard-Groningen Durchmusterung, and arranged extensive international collaboration through his Plan of Selected Areas.

Features

► Presents the life and work of the Dutch astronomer Jacobus C. Kapteyn, who contributed significantly to the cataloging and measuring of star parallaxes ► Includes historical details on the major impact of World War I on Kapteyn's life and scientific achievements ► Written by an author who has spent most of his career working in the Kapteyn Astronomical Institute in Groningen, and is familiar with their extensive relevant archival material

Contents

Preface.- Acknowledgements.- Chapter 1: Growing up in Barneveld.- Chapter 2: Studies in Utrecht.- Chapter 3: Astronomer in Leiden.- Chapter 4: Professor in Groningen.- Chapter 5: From Kepler to Parallax.- Chapter 6: Cape Photographic Durchmusterung.- Chapter 7: An Astronomical Laboratory.- Chapter 8: Colors and Motions.- Chapter 9: Star Streams.- Chapter 10: Selected Areas.- Chapter 11: Extinction.- Chapter 12: Students.- Chapter 13: Mount Wilson.- Chapter 14: Tides, Statistics and the Art of Discovery.- Chapter 15: First Attempt.- Chapter 16: Finale.- Appendices.- Notes and References.- Index.

Fields of interest

Astronomy, Observations and Techniques; History and Philosophical Foundations of Physics

Target groups

Research

Product category

Monograph

Due November 2014

2015. XXIV, 696 p. 268 illus., 82 illus. in color. (Astrophysics and Space Science Library, Volume 416) Hardcover
► ***€ (D) 213,99 | € (A) 219,99 | sFr 266,50**
► **€ 199,99 | £180.00**
ISBN 978-3-319-10875-9

A. von Müller, Pullach, Germany; **T. Filk,** University of Freiburg, Freiburg, Germany (Eds)

Re-Thinking Time at the Interface of Physics and Philosophy

The Forgotten Present

Contents

1. Angelo Bassi (mit Mohammad Bahrami, Sandro Donadi, Luca Ferialdi, Gabriel Leon), Department of Physics, University of Trieste, Italy : Irreversibility and Collapse Models .- 2. Philippe Blanchard, Mathematical Physics and BiBoS, University of Bielefeld, Germany: Classical and Quantum Probability: The two Logics of Science . - 3. Michael Drieschner, Ruhr Universität Bochum, Germany : Present and Future in Quantum Mechanics .- 4. Michael Esfeld, Department of Philosophy, University of Lausanne, Switzerland : Quantum physics and presentism .- 5. Thomas Filk, Institute of Physics, University of Freiburg, Germany : Relational Events and the Conflict between Relativity and the Collapse .- 6. Domenico Giulini, Institute for Theoretical Physics, Leibniz University Hannover, Germany : Instants in physics – point mechanics and general relativity .- 7. Basil Hiley, TPRU, Birbeck, University of London, UK : Time and the Algebraic Theory of Moments .- 8. Dustin Lazarovici, Mathematical Institute, University of Munich, Germany : Relativistic Interactions and the Structure of Time .- 9. Albrecht von Müller und Andrej Nikonov: N.N..- 10. Hartmann Römer, Institute of Physics, University of Freiburg, Germany : Now, Factuality and Conditio Humana.- 11. Teijinder P. Singh, Tata Institute of Fundamental Research, Mumbai, India : The problem of time and the problem of quantum measurement.-

Fields of interest

Quantum Physics; Philosophy of Science; Metaphysics

Target groups

Research

Product category

Contributed volume

Due February 2015

2015. VI, 264 p. 53 illus., 15 illus. in color. (On Thinking, Volume 4) Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-3-319-10445-4

K. Wang, ESO, the European Southern Observatory, Garching bei München, Germany

The Earliest Stages of Massive Clustered Star Formation

Fragmentation of Infrared Dark Clouds

This thesis presents an in-depth, high-resolution observational study on the very beginning of the formation process: the fragmentation of dense molecular clouds known as infrared dark clouds (IRDCs). Using the Submillimeter Array (SMA) and Very Large Array (VLA) radio interferometers, the author has discovered a common picture of hierarchical fragmentation that challenges some of the leading theoretical models and suggests a new, observation-driven understanding of how massive star formation in clustered environments may begin: it is initiated by the hierarchical fragmentation of a dense filament from 10 pc down to 0.01 pc, and the stellar mass buildup is simultaneously fed by hierarchical accretion at similar scales.

Features
► Nominated as an outstanding thesis by Peking University ► Presents the latest high angular resolution observational studies using the Submillimeter Array (SMA) and Very Large Array (VLA) ► Presents the discovery of a common hierarchical fragmentation in three infrared dark clouds ► Proposes a new scenario for the formation of massive star clusters

Contents
Scientific background.- An Infrared Point Source Survey.- The "Dragon" Nebula G28.34+0.06.- The "Snake" Nebula G11.11–0.12.- The Infrared Dark Cloud G30.88+0.13.- A New Evolutionary Picture.

Fields of interest
Astronomy, Observations and Techniques; Atmospheric Sciences; Microwaves, RF and Optical Engineering

Target groups
Research

Product category
Ph.D. Thesis

Due October 2014

2015. XV, 167 p. 37 illus., 23 illus. in color. (Springer Theses) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44968-4

J. Zhao, L. Liu, F. Li, Dalian University of Technology, Dalian, China

Graphene Oxide: Physics and Applications

This book gives a comprehensive overview of graphene oxides (GO) from atomic structures and fundamental properties to technological applications. Atomic structural models, electronic properties, mechanical properties, optical properties, and functionalizing and compositing of GO are illustrated. Moreover, the excellent physical and chemical properties offer GO promising applications in electronic nanodevices, chemical sensors and catalyst, energy storage, and biotechnology, which are also presented in this book. Therefore, this book is of interest to researchers in physics, chemistry, materials science, and nanoscience.

Features
► Covers experimental characterization and theoretical exploration of the structures and properties of GO ► Illustrates potential applications in electronics, optics, energy conversion and storage, environmental science, and biotechnology ► Can serve both as a reference work for researchers and a text for graduate students

Contents
Fabrication and reduction.- Structural characterization.- Structural modeling and physical properties.- Application of GO in electronics and optics.- Application of GO in energy conversion and storage.- Application of GO in environmental science.- Application of GO in biotechnology.- Conclusion and outlook.

Fields of interest
Nanoscale Science and Technology; Nanochemistry; Surfaces and Interfaces, Thin Films

Target groups
Research

Product category
Brief

Due December 2014

2014. 100 p. 40 illus., 25 illus. in color. (SpringerBriefs in Physics) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-662-44828-1

E. I. Alarcon, Principal Investigator of Laboratory Research, Assistant Professor Faculty of Medicine, University of Ottawa Heart Institute, Ottawa, Canada; **M. Griffith,** Director, Integrative Regenerative Medicine Centre Linköping University, Linköping, Sweden; **K. I. Udekwu,** Swedish Medical Nanoscience Center, Karolinska Institutet, Stockholm, Sweden (Eds)

Silver Nanoparticle Applications

In the Fabrication and Design of Medical and Biosensing Devices

Features
► Provides relevant and up-to-date information concerning the surface plasmon resonance band, electron transfer processes, and biological activity of silver nanoparticles ► Delivers a clear and complete view of the current state of the art for silver nanoparticles applications in the fabrication and design of medical and biosensing devices ► Accessible to undergraduates/postgraduates as well as experts working within this field

Contents
Silver nanoparticles: From bulk material to colloidal nanoparticles.- Synthesis and characterization of silver nanoparticles: Rationalizing silver nanoparticle synthesis.- SERS and plasmon mediated applications of silver nanoparticles: More than antenna effect.- Electron transfer mediated processes in silver nanoparticles: Uses and applications in photocatalysis.- Biomedical uses of silver nanoparticles: From Roman's wine cups to antiseptical skin scaffold.- Measuring the antimicrobial and cytotoxicity of silver nanoparticles: Ionic silver is not always equal to silver nanoparticles.

Fields of interest
Nanotechnology; Nanotechnology and Microengineering; Biomedical Engineering

Target groups
Research

Product category
Monograph

Due February 2015

2015. 220 p. 50 illus., 20 illus. in color. (Engineering Materials) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11261-9

M. Danyluk, GE Healthcare, Milwaukee, WI, USA; **A. Dhingra,** University of Wisconsin, Milwaukee, WI, USA

Rolling Contact Fatigue in a Vacuum

Test Equipment and Coating Analysis

This book deals with wear and performance testing of thin solid film lubrication and hard coatings in an ultra-high vacuum (UHV), a process which enables rapid accumulation of stress cycles compared with testing in oil at atmospheric pressure.

Features
► Illustrates rolling contact fatigue testing in ultra-high vacuum ► Demonstrates testing at rotational speeds up to 7800 RPM without oil as a lubricant ► Explores process control using in situ plasma monitoring ► Elucidates controller optimization and hardware-in-the-loop testing applied to deposition processing ► Analyzes and explains investigative tools testing in ultra-high vacuum

Contents
Introduction.- Vacuum chamber design.- Rolling Contact Testing of Ball Bearing Elements.- Rolling Contact Fatigue in High Vacuum.- Coating Thickness Calculation and Adhesion.- Ion Plating Process Model.- Effects of Process Parameters on Flm RCF Life.- Real Time Process Control.

Fields of interest
Tribology, Corrosion and Coatings; Surfaces and Interfaces, Thin Films; Operating Procedures, Materials Treatment

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. X, 310 p. 77 illus., 76 illus. in color. Hardcover
► approx. *€ (D) 112,34 | € (A) 115,49 | sFr 137,50
► approx. € 104,99 | £93.00
ISBN 978-3-319-11929-8

C. de Mello Donega, Utrecht University, Utrecht, The Netherlands (Ed)

Nanoparticles

Workhorses of Nanoscience

This book can be roughly divided into three parts: fundamental physico-chemical and physical principles of Nanoscience, chemistry and synthesis of nanoparticles, and techniques to study nanoparticles. The first chapter is concerned with the origin of the size dependence of the properties of nanomaterials, explaining it in terms of two fundamental nanoscale effects. This chapter also serves as a general introduction to the book, briefly addressing the definition and classification of nanomaterials and the techniques used to fabricate and study them. Chapter 2 lays out the theoretical framework within which to understand size effects on the properties of semiconductor nanocrystals, with particular emphasis on the quantum confinement effect.

Features
► Useful for graduate students with additional exercises ► Presents new potential applications of Nanomaterials ► Provides the essential background of the field

Contents
The Nanoscience Paradigm: "Size Matters!".- Size effects on semiconductor nanoparticles.- Metal nanoparticles for microscopy and spectroscopy.- Nanoporous materials and confined liquids.- Supported nanoparticles.- The challenge of colloidal nanoparticle synthesis.- Electron microscopy techniques.- Scanning probe microscopy and spectroscopy.- Electron paramagnetic resonance based spectroscopic techniques.- Solution NMR toolbox for colloidal nanoparticles.

Fields of interest
Nanotechnology; Characterization and Evaluation of Materials; Optical and Electronic Materials

Target groups
Research

Product category
Monograph

Due October 2014

2014. IX, 313 p. 140 illus., 53 illus. in color. Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-662-44822-9

E. P. Holowka, DuPont Central Research & Development, Wilmington, USA; **S. K. Bhatia,** Harvard University, Cambridge, MA, USA

Drug Delivery

Materials Design and Clinical Perspective

Current pharmaceutical and clinical approaches to the treatment of disease suffer from the inherent limitations in the specialization of drugs introduced to physiological systems. The interface of clinical and material sciences has allowed for a broad spectrum of creative approaches with the potential to alleviate these shortcomings. However, the synergy of these disciplines also presents problems in which nascent technology lacks the necessary evaluation within its intended clinical environment. Given the growing potential for materials science to address a number of unanswered therapeutic needs, it remains even more pressing to validate emerging drug delivery technologies in actual clinical environments.

Features
► Provides a comprehensive description of drug delivery systems from a materials perspective ► Includes a wide-ranging discussion of clinical applications of drug delivery systems ► Presents separate chapters on controlled release materials, thin film materials, self-microemulsifying materials, smart materials, etc ► Covers fundamental engineering principles, rational materials design, implementation testing, and clinical applications for each material type

Contents
Introduction.- Controlled Release Systems.- Thin Film Materials.- Self-Microemulsifying Materials.- Targeted Materials.- Hydrogel Materials.- Smart Drug Delivery Systems.- Conclusion.

Fields of interest
Biomaterials; Biomedical Engineering; Pharmacology/Toxicology

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due November 2014

2015. VIII, 298 p. 174 illus., 35 illus. in color.
Hardcover
► ***€ (D) 80,24 | € (A) 82,49 | sFr 100,00**
► **€ 74,99 | £67.99**
ISBN 978-1-4939-1997-0

S. Hong, Argonne National Laboratory, Lemont, IL, USA; **O. Auciello,** University of Texas-Dallas, Dallas, TX, USA; **D. Wouters,** IMEC, Leuven, Belgium (Eds)

Emerging Non-Volatile Memories

This book is an introduction to the fundamentals of emerging non-volatile memories and provides an overview of future trends in the field. Readers will find coverage of seven important memory technologies, including Ferroelectric Random Access Memory (FeRAM), Ferromagnetic RAM (FMRAM), Multiferroic RAM (MFRAM), Phase-Change Memories (PCM), Oxide-based Resistive RAM (RRAM), Probe Storage, and Polymer Memories. Chapters are structured to reflect diffusions and clashes between different topics. Emerging Non-Volatile Memories is an ideal book for graduate students, faculty, and professionals working in the area of non-volatile memory.

Features
► Provides an overview of non-volatile memory fundamentals ► Covers key memory technologies ► Written by experts from both academia and industry

Contents
Part I: Ferroic Memories.- Review of the Science and Technology for Low and High-density Non-volatile Ferroelectric Memories.- Hybrid CMOS/magnetic memories (MRAM) and logic circuits.- Emerging Multi-Ferroic Memories.- Part II: Resistance and Phase Change Memories.- Phase-Change Materials for Data Storage Applications.- Emerging Oxide Resistance Change Memories.- Oxide based memristive nanodevices.- Part III: Probe Memories.- Ferroelectric Probe Storage Devices.

Fields of interest
Optical and Electronic Materials; Solid State Physics; Spectroscopy and Microscopy

Target groups
Research

Product category
Monograph

Due November 2014

2014. IV, 230 p. 155 illus., 125 illus. in color.
Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-1-4899-7536-2

Z. Jakšić, University of Belgrade, Belgrade, Serbia

Micro and Nanophotonics for Semiconductor Infrared Detectors

Towards an Ultimate Uncooled Device

The advent of microelectromechanic system (MEMS) technologies and nanotechnologies has resulted in a multitude of structures and devices with ultra compact dimensions and with vastly enhanced or even completely novel properties.

Features
► Addresses the "holy grail of detector design": the seemingly simple task of fabricating uncooled infrared detectors with background-limited operation ► Presents the up-to-date research from the field of modern micro and nano photonics ► Treats the applications for infrared detectors systematically

Contents
From the Contents: Part I Introduction- A Path to an Ideal Photonic Detector.- Infrared Detector Performance and Main Figures of Merit.- Classification of IR Detectors.- Part II Photon Management.- Nonimaging and Imaging Optical Concentrators.- Refractive Concentrators.- Part III Charge Carrier Management (Thermal Noise Engineering).- Nonequilibrium Suppression of Auger Generation-Recombination.- Limits of Nonequilibrium Detector Operation.

Fields of interest
Optical and Electronic Materials; Microwaves, RF and Optical Engineering; Optics, Optoelectronics, Plasmonics and Optical Devices

Target groups
Research

Product category
Monograph

Due October 2014

No distribution rights for Bosnia and Herzegovina, Croatia, Macedonia, Montenegro, Serbia, Slovenia

2014. XXI, 256 p. 152 illus., 41 illus. in color.
Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-09673-5

P. D. Johnson, G. Xu, W.-G. Yin, Brookhaven National Laboratory, Upton, NY, USA (Eds)

Iron-Based Superconductivity

This volume presents an in-depth review of experimental and theoretical studies on the newly discovered Fe-based superconductors.

Features
► Provides a detailed description of sample growth and characterization for correlated and complex materials ► Features extensive coverage of results from major experimental techniques that probe the electronic and magnetic properties of Fe-based superconductors ► Offers a comprehensive review of recent theoretical developments in electronic correlation and frustration ► Represents a one-stop reference for a broad audience from advanced undergraduate and graduate students through active researchers ► Written by leading experts in each of the relevant sub-fields

Contents
Part I Materials: Synthesis, structural properties, and phase diagrams.- Bulk.- Film.- Part II Experiments: Characterization of Electronic and Magnetic Properties.- Electron spectroscopy – ARPES.- Magnetic order and dynamics – neutron scattering.- Scanning Tunneling Spectroscopy.- X-ray scattering and diffraction.- Optics and transport.- Other techniques.- Properties under extreme conditions.- Part III Theories.- First-principles band calculation.- Many-body computation.- Itinerant electron model.- t-J-like model with localized moments.- Coexisting itinerant and localized electrons.- Orbital-selective Mott transition.

Fields of interest
Optical and Electronic Materials; Strongly Correlated Systems, Superconductivity; Magnetism, Magnetic Materials

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 378 p. 219 illus., 202 illus. in color. (Springer Series in Materials Science, Volume 211) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11253-4

M. Lungu, A. Neculae, M. Bunoiu, C. Biris, West University of Timisoara, Timisoara, Romania (Eds)

Nanoparticles' Promises and Risks

Characterization, Manipulation, and Potential Hazards to Humanity and the Environment

Contents
Nanoparticles. Definition, Classification, General Physical Properties.- Natural Sources of Nanoparticles.- Anthropogenic Sources of Nanoparticles.- Mechanisms of Nanoparticle Formation and Reformation in the Atmosphere.- Nanopathology: the nano-bio-interaction of nanoparticles inside the human body.- Nanotoxicity: must consider aspect of nanoparticle development.- Pros and cons on magnetic nanoparticles use in medicine and biotechnologies applications.- Nanofluidics-based mass spectrometry. Applications for biomarker discovery in lysosomal storage diseases.- Multidynamic Liposomal Nanomedicine: Technology, Biology, Applications, and Disease Targeting.- Identifications of nanoparticles in organic matrices.- Gold Nanoparticle in Biosensing Analyses.- Electron Magnetic Resonance technique and nanoparticle characterization.- Nanoparticles Characterization using Nanoparticle Tracking Analysis.- Dielectrophoresis Used for Nanoparticle Manipulation in Microfluidic Devices.- Multi-dimensional electrophoresis: The march in pharma applications.- Tailored Bio-Polysaccharide Nonomicelles for Targeted Drug Delivery.

Fields of interest
Nanotechnology; Nanoscale Science and Technology; Environmental Engineering/Biotechnology

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2014. XXIV, 350 p. 135 illus., 91 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11727-0

N. Sultana, Universiti Teknologi Malaysia, Skudai, Malaysia

Composite Synthetic Scaffolds for Tissue Engineering and Regenerative Medicine

This book addresses important biomaterials which are commonly used to fabricate scaffolds and it describes two major protocols employed in scaffold fabrication. Tissue engineering or regenerative medicine aims at restoring ex-novo tissues and organs whose functionality has been compromised as a consequence of diseases or traumatic events. The innovative concept underlying tissue engineering is the use of autologous cells, obtained from a biopsy of the patient. Cells are seeded on a porous scaffold which has the role of supporting and guiding cells towards the development of tissue-like structures as well as providing a platform for the delivery under controlled condition of growth factor release, etc. The successful manufacture of scaffolds for tissue engineering applications is crucial. In this book, these biomaterials are discussed.

Features
► Offers two major protocols employed in scaffold fabrication ► Addresses important biomaterials which are commonly used to fabricate scaffolds ► Covers illustrated examples, structure and properties of scaffolds, cellular interactions and drug delivery

Contents
Scaffolding Biomaterials.- Scaffold Fabrication Protocols.- Fabrication of Polymer and Composite Scaffolds using Electrospinning Techniques.- Fabrication of Polymer and Composite scaffolds using Thermally Induced Phase Separation Technique.

Fields of interest
Biomaterials; Biomedical Engineering; Regenerative Medicine/Tissue Engineering

Target groups
Research

Product category
Brief

Due October 2014

2014. 120 p. (SpringerBriefs in Materials) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-09754-1

W. Udomkichdecha, National Metal and Materials Technology Center (MTEC), KlongLuang Pathumtani, Thailand; **T. Böllinghaus,** BAM Bundesanstalt für Material- forschung und -prüfung, Berlin, Germany; **A. Manonukul,** National Metal and Materials Technology, Klong 1, Klong Luang, Pathumthani, Thailand; **J. Lexow,** BAM Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany (Eds)

Materials Challenges and Testing for Manufacturing, Mobility, Biomedical Applications and Climate

In two parts, the book focusses on materials science developments in the area of 1) Materials Data and Informatics: - Materials data quality and infrastructure - Materials databases - Materials data mining, image analysis, data driven materials discovery, data visualization. 2) Materials for Tomorrow's Energy Infrastructure: - Pipeline, transport and storage materials for future fuels: biofuels, hydrogen, natural gas, ethanol, etc. -Materials for renewable energy technologies This book presents selected contributions of exceptional young postdoctoral scientists to the 4th WMRIF Workshop for Young Scientists, hosted by the National Institute of Standards and Technology, at the NIST site in Boulder, Colorado, USA, September 8 to September 10, 2014.

Features
► Presents selected contributions of exceptional young postdoctoral scientists ► Focuesses on materials data analysis, visualization and processing ► Includes resources about materials for tomorrow's energy infrastructure

Fields of interest
Characterization and Evaluation of Materials; Information Systems Applications (incl.Internet); Materials Engineering

Target groups
Research

Product category
Monograph

Due September 2014

2014. X, 245 p. 120 illus., 67 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11339-5

Y. Xiong, University of Science and Technology of China, Anhui, China; **X. Lu,** National University of Singapore, Singapore, Singapore (Eds)

Metallic Nanostructures

From Controlled Synthesis to Applications

This book details the design for creation of metal nanomaterials with optimal functionality for specific applications. The authors describe how to make desired metal nanomaterials in a wet lab. They include an overview of applications metal nanomaterials can be implemented in and address the fundamentals in the controlled synthesis of metal nanostructures.

Features
► Explains the design specifications of metal nanostructures for various applications in electronics, biomedicine, SERS, as well as catalytic and electrocatalytic applications ► Introduces current research trends for each subfield of metal nanomaterials ► Includes numerous images of metallic nanostructures and their applications

Contents
Metallic Nanostructures: Fundamentals.- Controlled Synthesis: Nucleation and Growth in Solution.- Bimetallic Nanocrystals: Growth Models and Controlled Synthesis.- Interactions of Metallic Nanocrystals with Small Molecules.- Plasmonic Nanostructures for Biomedical and Sensing Applications.- Magnetic Metallic Nanostructures for Biological Applications.- Metallic Nanostructures for Electrocatalysis.- Metallic Nanostructures for Catalytic Applications.- Metallic Nanostructures for Electronics and Optoelectronics.

Fields of interest
Metallic Materials; Nanotechnology and Microengineering

Target groups
Professional/practitioner

Product category
Professional book

Due November 2014

2015. I, 360 p. 196 illus., 137 illus. in color. Hardcover
► **approx. *€ (D) 96,29 | € (A) 98,99 | sFr 117,50**
► **approx. € 89,99 | £79.50**
ISBN 978-3-319-11303-6

A. Yurkov, Moscow, Russia

Refractories for Aluminium

Electrolysis and the Cast House

This book details the peculiarities of the requirements for refractories designed for aluminium metallurgical process: reduction, cast house, and anode production. The author describes requirements specific to the properties and structure of refractory materials that differentiate it from the refractories for ferrous metallurgy and other refractories. A comparison is drawn between the properties and structure of refractories and carbon cathode materials from different points of view: from the point of physical chemistry and chemistry interactions during the metallurgical process and from the point of design of reduction pots and furnaces with the aspect to the service life time of metallurgical aggregates.

Features
► Reveals the peculiarities of physical chemistry in aluminium production ► Summarizes specific requirements for the properties and structure of refractory materials ► Addresses contradictory concepts on lining of reduction cells - thermal balance and good refractory materials

Contents
Preface.- Glossary.- The properties of refractory and heat insulation materials.- Refractories and carbon cathode materials for aluminum reduction cells.- Refractories and heat insulation materials for the cast house.- Refractories for the anode baking furnaces.

Fields of interest
Metallic Materials; Physical Chemistry; Building Materials

Target groups
Professional/practitioner

Product category
Professional book

Due October 2014

2014. X, 267 p. 155 illus., 54 illus. in color. Hardcover
► **approx. *€ (D) 96,29 | € (A) 98,99 | sFr 117,50**
► **approx. € 89,99 | £79.50**
ISBN 978-3-319-11441-5

A. Ansal, Özyeğin University, Istanbul, Turkey;
M. Sakr, Tanta University, Tanta, Egypt (Eds)

Perspectives on Earthquake Geotechnical Engineering

In Honour of Prof. Kenji Ishihara

Contents

Geotechnical damage in the downstream reaches of the Tone river in the 2011 East Japan Earthquake.- Amplification Effects of Thin Soft Surface Layers: A Study for NBCC 2015.- New design spectra in Eurocode 8 and preliminary application to the seismic risk of Thessaloniki, Greece.- Incorporating Site Response into Seismic Hazard Assessments for Critical Facilities: A Probabilistic Approach.- Stress Scaling Factors For Seismic Soil Liquefaction Engineering Problems: A Performance-Based Approach.- Site amplification formula using Average Vs in equivalent surface layer based on vertical array strong motion records.- Observations from Istanbul vertical arrays and site specific response analysis.- Combined failure mechanism of a breakwater subject to Tsunami during 2011 East Japan Earthquake.- Lessons Learned From Dams Behavior Under Recent Earthquakes,- Nonlinear dynamic analyses of liquefaction effects on dams.- The Effects of Liquefaction on Earthquake Ground Motions.- Shaking model tests on liquefaction mitigation of embedded lifeline.- Effect of Long Duration of the Main Shock and a Big Aftershock on the Liquefaction-Induced Damage During the 2011 Great East Japan Earthquake.- Liquefaction Observed During the 2010 Chile Earthquake.- A Case Study of Silty Sand Liquefaction- 2010 Hsin Hwa Liquefaction in Taiwan.- Post-earthquake analysis for a seismic retrofitting: the case history of a piled foundation in Augusta (Italy). [...]

Fields of interest

Geotechnical Engineering & Applied Earth Sciences; Natural Hazards; Civil Engineering

Target groups

Research

Product category

Monograph

Due January 2015

2014. 420 p. 410 illus., 285 illus. in color. (Geotechnical, Geological and Earthquake Engineering, Volume 37) Hardcover
► **approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **approx. € 129,99 | £117.00**
ISBN 978-3-319-10785-1

G. Asadollahfardi, Kharazmi University, Tehran, Iran

Water Quality Management

Assessment and Interpretation

Considering the significance of water quality for drinking, irrigation and industry, availability of accurate and sufficient water quality data is necessary and having enough data without proper interpretation is not helpful for water quality management decisions. Hence, analysis of the existing data and prediction of future of water quality is vital. The current volume first defines the importance of water quality parameters regarding public health and irrigation. Secondly, the climatic situation and hydrological cycle of the area is considered for interpretation of the data. Various methodologies such as Box-Jenkins time series analysis, water quality indices, artificial neural networks and principal component analysis are described and applied to actual data for different environmental conditions such as arid, semi-arid and mountainous areas. This book is a user manual for students and professionals involved in water quality planning and management.

Features

► Special focus on availability of accurate and sufficient water quality data, particularly in view of water quality management decisions ► Outlook on importance of water quality parameters regarding public health and irrigation whilst taking into account the climatic situation and hydrological cycle of the area for data interpretation ► Description of various methodologies such as Box-Jenkins time series analysis, water quality indices, artificial neural networks and principal component analysis ► Valuable ideas on water quality planning and management

Fields of interest

Hydrogeology; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Mathematical Applications in the Physical Sciences

Target groups

Research

Product category

Brief

Due September 2014

2015. IX, 117 p. 44 illus., 39 illus. in color. (SpringerBriefs in Water Science and Technology) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-662-44724-6

G. K. Das, Jadavpur University, Kolkata, India

Estuarine Morphodynamics of the Sunderbans

This book is the outcome of rigorous and continuous research work done by the author over about three decades on the open ecosystem and dynamic environment of the estuarine Sunderbans. The objective of this work is to identify the field and factors changing gradually upon this active delta over the years, decades and centuries. The deltaic Sunderbans yet not mature enough, has been changing in its natural course with time. Further, anthropogenic interferences disturb the environments and accelerate degradation of nature of this fragile ecosystem simultaneously. Roles played by almost all the agents including man and environment and their involvement are identified for the changing environmental scenario of the Sunderbans. The book is befitted for the researchers and students for the post graduate levels.

Features

► Uniquely fuses coastal and estuarine studies, environmental sciences and earth sciences ► Of interest to a wide audience of researchers and post graduate students ► Contains a rich resource of unpublished data, examples and illustrations

Contents

Sunderbans: Physical Aspects and Configurations.- River Systems and Tidal Courses.- Brackish Water.- Substrate Soils.- Coastal Morpho-Dynamics.- Granulometry of Mangrove Sediments.- Estuarine and Coastal Erosions.- Floral Diversity.- Mangrove Ecosystems.- Anthropogenic Interferences.- Changing Environmental Scenario.

Fields of interest

Coastal Sciences; Marine & Freshwater Sciences; Oceanography

Target groups

Research

Product category

Monograph

Due November 2014

2015. XXVII, 176 p. 59 illus., 36 illus. in color. (Coastal Research Library, Volume 11) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11342-5

M. Hermelin, U. EAFIT, Medellín, Colombia (Ed)

Landscapes and Landforms of Colombia

The book contains a short description of Colombia´s geological evolution and present landscapes, followed by systematic descriptions of 17 geomorphosites, selected from scientific and aesthetic points of view. The large climatic and topographic diversity which characterises Colombia permits a broad variety of landscapes, including coastal features, mud volcanoes and desertic geoforms, snow covered peaks and active volcanoes, deeply incised canyons and forming subdesertic valleys and lake located up to 3000 m above sea level. The book reflects the intent to contribute to the knowledge of a country which has often been left apart from traditional touristic guides.

Features
► The book covers the most important and relevant landscapes of Columbian geomorphology ► It provides easily accessible and up-to-date information about Columbian geomorphology, and is a useful tool for students, researchers and non-geomorphologists ► The clear and layman language style employed and quality illustrations (e.g. coloured maps, aerial photos, and photos) should make it attractive to a general audience as well

Fields of interest
Geology; Physical Geography; World Regional Geography (Continents, Countries, Regions)

Target groups
Upper undergraduate

Product category
Monograph

O. Kolditz, Helmholtz Centre for Environm. Research UFZ, Leipzig, Germany; **H. Shao,** Federal Inst. for Geosciences and Natural Resources (BGR), Hannover, Germany; **W. Wang,** Helmholtz Centre for Environm. Research UFZ, Leipzig, Germany; **S. Bauer,** Christian-Albrechts-Universität zu Kiel, Kiel, Germany (Eds)

Thermo-Hydro-Mechanical-Chemical Processes in Fractured Porous Media: Modelling and Benchmarking

Closed-Form Solutions

The present book provides guidance to understanding complicated coupled processes based on the experimental data available and implementation of developed algorithms in numerical codes. Results of selected test cases in the fields of closed-form solutions (e.g., deformation processes), single processes (such as groundwater flow) as well as coupled processes are presented. It is part of the OpenGeoSys initiative - an open source project to share knowledge and experience in environmental analysis and scientific computation with the community.

Features
► Comprehensive summary of thermo-hydro-mechanical-chemical modelling ► Unique compilation of porous media simulation ► Benchmark collection of OpenGeoSys initiative

Fields of interest
Quantitative Geology; Simulation and Modeling; Geotechnical Engineering & Applied Earth Sciences

Target groups
Research

Product category
Monograph

W. Leal Filho, Hamburg University of Applied Sciences, Hamburg, Germany; **M. Kovaleva,** HAW Hamburg, Hamburg, Germany

Food Waste and Sustainable Food Waste Management in the Baltic Sea Region

This work presents the findings of an extensive study on the state-of-the-art regarding the problem of food waste in Belarus, Estonia, Germany, Latvia, Lithuania, Poland and Sweden. The results show that the problem of food waste can be found at different levels in each country and that our knowledge of it is limited by the current lack of studies in the area.

Features
► A unique overview on amounts of food waste generation in the Baltic Sea Region countries ► Country statistics on food waste generation, available for the first time and resulting from 6 months research ► A chapter on applied methods of food waste treatment in the Baltic Sea Region countries

Contents
Introduction.- Literature Review.- Causes of food waste generation.- Methods of food waste reduction.- Research Methods.- Overview of the Baltic Region countries.- The state-of-the-art of the problem of food waste in the Baltic Region countries.- Discussion.- Conclusions and Recommendations.- Appendix A.- Appendix B.- Glossary.- References.

Fields of interest
Environmental Science and Engineering; Waste Management/Waste Technology; Sustainable Development

Target groups
Research

Product category
Monograph

Due March 2015

2015. 200 p. 190 illus., 80 illus. in color. (World Geomorphological Landscapes) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11799-7

Due December 2014

2015. 315 p. 250 illus., 100 illus. in color. (Terrestrial Environmental Sciences) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11893-2

Due September 2014

2015. XII, 222 p. 95 illus. in color. (Environmental Science and Engineering / Environmental Science) Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-319-10905-3

R. J. Malcuit, Denison University, Granville, OH, USA

The Twin Sister Planets Venus and Earth

Why are they so different?

This book explains how it came to be that Venus and Earth, while very similar in chemical composition, zonation, size and heliocentric distance from the Sun, are very different in surface environmental conditions. It is argued here that these differences can be accounted for by planetoid capture processes and the subsequent evolution of the planet-satellite system.

Features
► A comprehensive model for the evolution the planet Earth and Venus over Geologic Time ► Offers a new approach to the intact capture model ► Contains proposed tests of the models presented ► Has many significant implications for the argument that habitable planets may be fairly rare in a large region of space

Contents
Introduction.- The Origin of the Sun and the Early Evolution of the Solar System.- Models for the Origin and Evolution of the Earth-Moon System.- A Prograde Gravitational Capture Model for the Origin and Evolution of the Earth-Moon System.- Some Critical Interpretations and Misinterpretations of Lunar Features.- Origin and Evolution of the Venus-Adonis System: A Retrograde Gravitational Capture Model.- A Retrograde Gravitational Capture Model for the Earth-Moon System.- Planet Orbit – Lunar Orbit Resonances and the History of the Earth-Moon System.- Discussion of the Probability of Finding Habitable Planets for Humans Orbiting Sun-Like Stars.- Summary and Conclusions.- Appendices.- Glossary.- Index.

Fields of interest
Planetology; Geochemistry; Astrobiology

Target groups
Popular/general

Product category
Monograph

Due October 2014

2015. I, 286 p. 225 illus., 68 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11387-6

D. M. Micu, Institute of Geography of the Romanian Academy, Bucharest, Romania; **A. Dumitrescu, S. Cheval, M.-V. Birsan,** National Meteorological Administration, Bucharest, Romania

Climate of the Romanian Carpathians

Variability and Trends

This book is a comprehensive climatic monograph, which addresses one of the most complex mountain environments in Europe, the Carpathians Chain, focusing on the branches that lie over Romania. The volume aggregates high quality input data, state-of-the-art techniques, regional analysis and overview perspectives, while addressing the spatial and temporal patterns of the main climatic elements. The study covers the period 1961-2010, for the present climate, while the perspective is extended up to 2050. The main climatic elements (e.g.

Features
► Presents the spatial distribution patterns of some key climatic variables subject to the vertical climatic zonation ► Reviews the observed climatic trends at above 1,000 m altitude ► Assesses the future climate change signals and associated climate extremes from the mid-term (2050) regional climate simulations

Contents
Contents: Theoretical background.- Study area.- Data.- Methods.- Geographical and synoptic control of the climate.- Regional climatic patterns.- Observed variability trends from instrumental records.- Changing climate extremes in the last five decades.- Projections of future changes in climate of the Romanian Carpathians.- Conclusions.- Index.

Fields of interest
Atmospheric Sciences; Climate Change; Climate Change/Climate Change Impacts

Target groups
Research

Product category
Monograph

Due October 2014

2015. V, 209 p. 82 illus., 69 illus. in color. (Springer Atmospheric Sciences) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-02885-9

A. Mitra, University of Calcutta, Kolkata, India; **S. Zaman,** Techno India University, Kolkata, India

Blue Carbon Reservoir of the Blue Planet

The ever increasing emission of carbon dioxide due to rapid industrialization, urbanization, unplanned tourism and alteration of land use pattern is causing unprecedented changes to marine biodiversity. Irrespective of political philosophy, nation, caste, sex and religion, mankind is under the appalling shadow of climate change. Today nature-based approaches for the mitigation of climate change are increasingly accepted as part of the low-cost solution.

Features
► The present book is the first of its kind to scan critically the stored and sequestered carbon in coastal life forms and covers the following components ► Evaluation of the role of coastal biotic communities in mitigating rising carbon dioxide level 30 years research data on carbon sequestration and storage by coastal vegetation ► Emphasis on role of phytoplankton in carbon sequestration, carbon storage in coral reef ecosystem & molluscan community as a potential sink of carbon

Contents
Chapter 1: The Blue Zone of the Planet Earth.- Chapter 2: Biodiversity of the Blue Zone.- Chapter 3: Blue Carbon Assessment.- Chapter 4: Blue Carbon in Floral Community.- Chapter 5: Phytoplankton Carbon Stock.- Chapter 6: Blue Carbon in Faunal Community.- Chapter 7: Threats to Blue Carbon Reservoir.- Chapter 8: Road Map to Expand Blue Carbon Reservoir.

Fields of interest
Oceanography; Climate, general; Environment, general

Target groups
Research

Product category
Monograph

Due December 2014

2014. Approx. 500 p. 165 illus., 145 illus. in color. Hardcover
► **approx. *€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **approx. € 169,99 | £153.00**
ISBN 978-81-322-2106-7

S. Mukherjee, Indian Institute of Technology Bombay, Mumbai, India (Ed)

Petroleum Geosciences: Indian Contexts

The book incorporates original and review articles on all aspects of petroleum geosciences from Indian terrains, both onshore and offshore, case histories including diverse geological (structural geological, tectonic, sedimentological, organic geochemical, palaeontological, stratigraphic, modelling and various others) and geophysical (seismic and other) methods, policy aspects, latest techniques in exploration, development, and production.

Features
► Summary of petroleum geosciences from Indian terrains ► Exploration techniques are presented ► Useful for researchers and professionals to understand the regional aspects

Fields of interest
Geology; Economic Geology; Sedimentology

Target groups
Research

Product category
Monograph

Due February 2015

Only available in print

2015. 550 p. 210 illus., 70 illus. in color. (Springer Geology) Hardcover
► **approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **approx. € 129,99 | £117.00**
ISBN 978-3-319-03118-7

A. Oth, European Center for Geodynamics and Seis, Walferdange, Luxembourg; **K. Mayeda,** eston Geophysical Corporation, Lexington, MA, USA; **L. Rivera,** Université de Strasbourg, Strasbourg, France (Eds)

Earthquake Source Physics on Various Scales

Earthquake rupture is a process of remarkable complexity. Over the past few decades, scientists have become aware of its high variability on all scales as well as its wide dynamic range. At the same time, a thorough understanding of the seismic source process is a key element of reliable earthquake ground motion prediction. The present book contains a comprehensive collection of contributions originating from the 2012 ECGS Workshop Earthquake Source Physics on Various Scales, held in Luxembourg. The seventeen articles in this volume cover theoretical and observational aspects of the earthquake source process, ranging from tiny, laboratory-generated M -6 events to the source complexity and radiated energy of the world's greatest earthquakes.

Features
► Most up-to-date treatise compiling state-of-the-art studies of the earthquake source process ► Covers all scales from laboratory experiments to megathrust earthquakes ► Provides the basis for a continuation of fruitful discussions on earthquake source scaling and its implications for a variety of applications, on seismic hazard, general source physics and the link between the laboratory and "real life" faulting

Fields of interest
Natural Hazards; Geotechnical Engineering & Applied Earth Sciences

Target groups
Research

Product category
Contributed volume

Due February 2015

Only available in print

2015. Approx. 340 p. (Pageoph Topical Volumes) Softcover
► **approx. *€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **approx. € 59,99 | £53.99**
ISBN 978-3-0348-0867-5

A. B. Rabinovich, Sidney, BC, Canada; **J. C. Borrero,** University of Southern California, Los Angeles, USA; **H. M. Fritz,** Georgia Institute of Technology, Atlanta, GA, USA (Eds)

Tsunamis in the Pacific Ocean: 2011-2012

The 2011 Tohoku earthquake generated a catastrophic tsunami that killed nearly 20,000 people along the coast of Japan and caused the nuclear disaster at the Fukushima Daiichi Nuclear Power Plant. The tsunami propagated throughout the Pacific Ocean and affected many other countries, including Russia, the USA, New Zealand, French Polynesia and Chile. This event once again demonstrated the terrible threat of tsunami waves for Pacific countries and the necessity of basin wide international scientific collaboration. This volume contains an introduction and 21 scientific papers, including 12 papers on aspects of the 2011 Tohoku event. The papers report detailed field survey results on the coasts of Japan and Russia, wave dynamics based on these surveys, source mechanism of the earthquake and far-field impacts of the Tohoku tsunami. Other papers report on 2012 tsunamis in El Salvador, the Philippines, off the east coast of Honshu and the landmark Haida Gwaii event off the west coast of British Columbia, Canada. A final set of papers discusses some remaining challenging questions in tsunami science and warning.

Features
► Advanced tsunami science ► New information and knowledge about recent catastrophic tsunami events ► Leading tsunami scientists are represented ► More than a dozen contributions to the 2011 Tohoku tsunami

Fields of interest
Natural Hazards; Coastal Sciences; Oceanography

Target groups
Research

Product category
Contributed volume

Due April 2015

Only available in print

2015. Approx. 355 p. (Pageoph Topical Volumes) Softcover
► **approx. *€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **approx. € 59,99 | £53.99**
ISBN 978-3-0348-0864-4

R. F. Robison, Bloomington, IN, USA

Mining and Selling Radium and Uranium

Presented here is the story of the mining and sale of uranium and radium ore through biographical vignettes, chemistry, physics, geology, geography, occupational health, medical utilization, environmental safety and industrial history. Includes the people and places involved over the course of over 90 years of interconnected mining and sale of radium and uranium, finally ending in 1991 with the abandonment of radium paint and medical devices, Soviet nuclear parity, and the Radiation Exposure Compensation Act.

Features
► The history of the mining and sale of uranium and radium ore in a single volume ► Presents the story of uranium and radium through biographical vignettes ► Explores uranium and radium in terms of chemistry, physics, geology, geography, occupational health, medical utilization, environmental safety and industrial history

Contents
REICH SILVER & PECHBLENDE.-IONIZING ROENTGEN RAYS.- RADIOACTIVE ROCKS.- RADIUM SALES & THERAPY.- COLORADO URANIUM.- USA RADIUM COMPANIES.- USA RADIUM ONCOLOGISTS.- CONGO & ARCTIC URANIUM.- MINER'S PLAGUE.- COLD WAR URANIUM BLUNDERS.

Fields of interest
Mineral Resources; Economic Geology; Natural Hazards

Target groups
Popular/general

Product category
Monograph

Due December 2014

2014. II, 189 p. 72 illus., 1 illus. in color. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 127,50**
► **approx. € 99,99 | £86.50**
ISBN 978-3-319-11829-1

R. Shaw, Kyoto University, Kyoto, Japan;
H. K. Nibanupudi, International Centre for Integrated, Kathmandu, Nepal (Eds)

Mountain Hazards and Disaster Risk Reduction

Contents
Overview of Mountain Hazards Issues.- Massive Varunavat Hill Landslide overlooking Uttarkashi Town in Uttarakhand Himalaya – Its treatment vis-à-vis stability analysis.- Floods in the Hindu Kush Region: Causes and Socio-economic Aspects.- Evolution of Geomorphologic Hazards in Hindu Kush Himalaya.- Seismic Hazard in the Himalayan Intermontane Basins: An Example From Kathmandu Valley, Nepal.- Demographic changes, economic changes and livelihood challenges in HKH region.- Land use and land cover change analysis in Uttarakhand Himalaya and its impact on environmental risks.- Mitigating Climatic and Human Induced Disaster risks through Ecosystem Resilience: Harmonizing Built and Natural Environments in the HKH region.- Analysis of policies and institutional framework of HKH countries.- Indigenous resilience and adaptation in high altitude arid zone communities.- Snow water Harvesting in the Cold Desert in Ladakh: An introduction to Artificial Glacier.- Some Socio-economically Significant Landslides in Uttarakhand Himalaya – Events, Consequences and Lessons Learnt.- Gender and Disaster Resilience in the Hindu Kush Himalayan Region.- Interlacing regional water policies, institutions and agreements with livelihoods and vulnerabilities in the HKH region: A case study of Kosi river basin.- Analysis of regional cooperation from the perspective regional and global geo-political developments and future scenarios.

Fields of interest
Natural Hazards; Landscape/Regional and Urban Planning; Regional and Cultural Studies

Target groups
Research

Product category
Monograph

Due October 2014

2015. IX, 249 p. 87 illus., 74 illus. in color. (Disaster Risk Reduction) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-4-431-55241-3

S. N. Singh, CSIR - National Botanical Research Institute, Lucknow, India (Ed)

Microbial Degradation of Synthetic Dyes in Wastewaters

Today synthetic dyes are used extensively in the textile dyeing, paper printing, color photography, pharmaceuticals, food and drink, cosmetic and leather industries. As of now, over 100,000 different dyes are available, with an annual production of over 700,000 metric tons. These industries discharge an enormous amount of colored effluents into natural water bodies, with or without treatment. The textile industry alone discharges 280,000 tons of dyes every year, making it the largest contributor to colored effluent discharge. Although a variety of treatment technologies are available, including adsorption, chemical oxidation, precipitation, coagulation, filtration electrolysis and photodegradation, biological and microbiological methods employing activated sludge, pure cultures, microbial consortia and degradative enzymes are economically viable, effective and environmentally responsible options.

Features
► Covers latest state of the art on the microbial degradation ► Has focused on biodegradation of synthetic dyes in waste waters ► Illustrates the bio-degradative pathways of synthetic dyes

Contents
From the Contents: Mycoremediation of Synthetic Dyes: An insight into the Mechanism, Process Optimization and Reactor Design.- Bacterial Enzymes and Multi-Enzymatic Systems for Cleaning-up Dyes from the Environment.- Bacterial Degradation of Azo Dye Containing Wastes.- Microbial Degradation of Basic Dyes in Wastewaters.

Fields of interest
Environmental Science and Engineering; Water Quality/Water Pollution; Industrial Chemistry/ Chemical Engineering

Target groups
Research

Product category
Monograph

Due October 2014

2015. XIV, 573 p. 85 illus., 21 illus. in color. (Environmental Science and Engineering / Environmental Science) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10941-1

C. Stylios, Technological Educational Institute of Epirus, Artas, Greece; **T. Floqi,** Polytechnic University of Tirana, Tirana, Albania; **J. Marinski,** Bulgarian Academy of Science, Sofia, Bulgaria; **L. Damiani,** Polytechnic of Bari, Bari, Italy (Eds)

Sustainable Development of Sea-Corridors and Coastal Waters

The TEN ECOPORT project in South East Europe

Contents

Part I: Assessment.- Integrated assessment of the quality of harbour sediments: Case study based on a comparative analysis of sediments quality of two industrial ports: Bourgas (BG) and Bari (IT).- The Influence of Oil, Dispersed Oil and the Oil Dispersant SD-25 on the Heart Rate of the Mediterranean Mussel (M. galloprovincialis L.).- Assessing the impact of Port Burgas on Air Quality during different seasons.- Application of Zero Liquid Discharge water treatment units for wastewater reclamation: Possible application in marine ports.- Physical–chemical parameters and assessment of pollution through bioindicators of Narta Lagoon.- Water quality assessment of the Bourgas Port waters.- Assessment of soft-bottom communities and ecological quality status surrounding Constanta and Mangalia ports (Black Sea).- Application of hydrodynamic, pollution drift and wave models as tools for better environmental management of ports.- Design of waves energy distribution for the harbour protection and coastal shore protection.- Part II: Monitoring.- Multi-compartment water quality assessment of port Burgas and Burgas bay.- Application of an environmental monitoring strategy in the Port of Bari. [...]

Fields of interest

Oceanography; Coastal Sciences; Marine & Freshwater Sciences

Target groups

Professional/practitioner

Product category

Monograph

Due November 2014

2015. I, 199 p. 71 illus., 52 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11384-5

L. Xu, Hefei University of Technology, Hefei, China

Impact of Climate Change and Human Activity on the Eco-environment

An Analysis of the Xisha Islands

This study describes the fundamentals of assessing the vulnerability of coral islands, as well as environmental management and resource exploitation. Using seabird subfossils, such as bones, guano, eggshells etc., which have been well preserved on the Xisha Islands in the South China Sea, the author identifies the influences of climate change and human activity on seabird populations and diets.

Features

► Nominated by University of Science and Technology of China as an outstanding Ph.D. thesis ► Establishes a development mode of coral island ecosystem ► Reconstructs a 2000-year record of seabird population and their diet ► Identify potential impacts of climate change and human activity on ecosystems

Contents

Introduction.- Research contents and methodology.- Study area and sample collection.- Chronology.- Geochemical evidence for the development of coral island ecosystem in the Xisha archipelago of the South China Sea.- A 2200-year record of seabird population on Ganquan Island, South China Sea.- Isotopic evidence for seabird diet changes over the past 2000 years in the Xisha Islands.- Evidence of human activities from the ornithogenic sediments of the Xisha Islands.- A preliminary study of ancient DNA in guano subfossils from the Xisha Islands.- Conclusions.

Fields of interest

Biogeosciences; Oceanography; Geochemistry

Target groups

Research

Product category

Monograph

Due October 2014

2015. XVI, 172 p. 53 illus., 14 illus. in color. (Springer Theses) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-45002-4

G. Gartner, H. Huang, Research Group Cartography, Vienna, Austria (Eds)

Progress in Location-Based Services 2014

This book presents a general picture of recent research activities related to location-based services. Such activities emerged in the last years especially concerning issues of outdoor/indoor positioning, smart environment, spatial modelling, personalization and context-awareness, cartographic communication, novel user interfaces, crowdsourcing, social media, big data analysis, usability and privacy. This book is comprised of a selection of the best papers presented during the 11th International Symposium on Location Based Services, which was held in Vienna (Austria) between 26th and 28th November 2014.

Features
► The LBS conference associated with this book has a long tradition in this field and is the only international event of this kind ► This book is of interest for various disciplines due to the interdisciplinary content ► As successor of the former Springer books on LBS (LBS, LBS II, Advances in LBS, Progress in LBS), this book completes the series

Field of interest
Geographical Information Systems/Cartography

Target groups
Research

Product category
Monograph

Due February 2015

2015. 400 p. 200 illus., 80 illus. in color. (Lecture Notes in Geoinformation and Cartography) Hardcover
► **approx. *€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **approx. € 129,99 | £117.00**
ISBN 978-3-319-11878-9

M. Helbich, University of Utrecht, Utrecht, The Netherlands; **J. Jokar Arsanjani,** University of Heidelberg, Heidelberg, Germany; **M. Leitner,** Louisiana State University, Baton Rouge, LA, USA (Eds)

Computational Approaches for Urban Environments

This book aims to promote the synergistic usage of advanced computational methodologies in close relationship to geospatial information across cities of different scales. A rich collection of chapters subsumes current research frontiers originating from disciplines such as geography, urban planning, computer science, statistics, geographic information science, and remote sensing. The topics covered in the book are of interest to researchers, postgraduates, practitioners, and professionals. The editors hope that the scientific outcome of this book will stimulate future urban-related international and interdisciplinary research, bringing us closer to the vision of a "new science of cities."

Features
► Presents current and innovative technological developments reflecting urban environments ► Includes cutting-edge methods and data (e.g., cell-phone data) for urban analyses ► Will stimulate international research networks and enrich geographical science

Fields of interest
Landscape/Regional and Urban Planning; Economic Geography; Environmental Science and Engineering

Target groups
Research

Product category
Monograph

Due January 2015

1st ed. 2015. 340 p. 131 illus., 73 illus. in color. (Geotechnologies and the Environment, Volume 14) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11468-2

Y. Ida, University of Tsukuba, Ibaraki, Japan; **M. Yuda,** The University of Tokyo, Tokyo, Japan; **T. Shimura,** Joetsu University of Education, Niigata, Japan; **S. Ike,** Waseda University, Tokyo, Japan; **K. Ohnishi,** Toyama University, Toyama, Japan; **H. Oshima,** Keio University, Yokohama, Japan (Eds)

Geography Education in Japan

Contents
Outline of Geography Education in Japan.- Problems and Perspectives of Geography Education in Japanese Elementary Schools.- Current Status and Issues in Junior High School Geography Education.- Current Status and Issues in Senior High School Geography Education.- Textbook Approval System and Geography Textbooks in Japan.- Reconsidering Regional Geography Education in Japan.- The Current State and Issues of Field Research in Japanese Geographic Education.- Maps, Globes, Cognitive Space and Geographic Education in Japan.- Social Participation in the Community and Geography Education.- Geography Education as Education for Sustainable Development (ESD) in Japan.- Institutional Issues in Disaster Prevention and Geography Education in Elementary and Secondary Education in Japan.- University Geography Departments and the Teaching License in Japanese Geography Education.- The Association of Japanese Geographers' Social Action Program and Geography Education.- GIS and Geography Education in Japan.- GIS Specialists' Support for Geography Education.- Trends in Japanese Geography Education Research in Recent Years.- Trends of School Geography in Asia.- Geography Education as Part of Social Studies Education in Japan.- Current State and Prospects of Senior High School Geography Curriculum. [...]

Fields of interest
Geography (general); Science Education; Earth Sciences, general

Target groups
Professional/practitioner

Product category
Monograph

Due November 2014

2015. X, 285 p. 16 illus., 8 illus. in color. (International Perspectives in Geography, Volume 3) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-4-431-54952-9

I. Ivan, VŠB - Technical University of Ostrava, Ostrava, Czech Republic; **I. Benenson,** Tel Aviv University, Tel Aviv, Israel; **B. Jiang,** University of Gävle, Gävle, Sweden; **J. Horák,** VŠB - Technical University of Ostrava, Ostrava, Czech Republic; **J. Haworth,** University College London, London, UK; **T. Inspektor,** VŠB - Technical University of Ostrava, Ostrava, Czech Republic (Eds)

Geoinformatics for Intelligent Transportation

The aim of the book is to present and discuss new methods, issues and challenges involved in geoinformatics' contribution to making transportation more intelligent, efficient and human-friendly. It covers a wide range of topics related to transportation and geoinformatics. The themes are divided into four main sections: Transport modeling, Sensor data and services, Intelligent transport systems, and Transport planning and accessibility.

Features
► Presents the latest research achievements in the area of geoinformatics and transportation ► Multidisciplinary focus ► Combination of theoretical papers and applications

Fields of interest
Geographical Information Systems/Cartography; Transportation; Computational Intelligence

Target groups
Research

Product category
Monograph

Due February 2015

2014. 300 p. 170 illus., 20 illus. in color. (Lecture Notes in Geoinformation and Cartography)
Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11462-0

R. H. Armon, Israel Institute of Technology Technion, Haifa, Israel; **O. Hänninen,** University of Eastern Finland, Kuopio, Finland (Eds)

Environmental Indicators

Environmental indicators are the first line of warning against hazards caused by humans or nature catastrophes to prevent diseases and death of living organisms. The present book covers a large variety of environmental indicators from physical-chemistry through economical, bioinformatics, electromagnetic irradiation and health aspects, all dealing with environmental pollution.

Features
► Covers a large variety of environmental indicators from physical-chemistry through economical, bioinformatics, electromagnetic irradiation and health aspects ► Broadens the understanding of dealing with environmental pollution ► Maximizes insights into environmental indicators of for example the environmental burden of disease, indoor air quality, ocean acidification, land use changes, biological urbanization, dry land and more

Contents
PART I. Environmental Thermodynamics.- PART II. Climate Change.- PART III. Conservation.- PART IV. Environmental Degradation.- PART V. Environmatics.- PART VI. Intensive Farming.- PART VII. Land Degradation.- PART VIII. Soil.- PART IX. Land Use.- PART X. Environmental Pollution.- PART XI. Water Pollution.- PART XII. Water Biological Pollution.- PART XIII. Water Chemical Pollution.- PART XIV. Air Pollution.- PART XV. Environmental Health.

Fields of interest
Pollution, general; Monitoring/Environmental Analysis; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 540 p. 207 illus., 157 illus. in color. Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-94-017-9498-5

P. Bajpai, Consultant (Pulp & Paper), Patiala, India

Management of Pulp and Paper Mill Waste

Pulp and paper mill industries are always associated with the disposal problem of highly contaminated sludge or bio-solids. The development of innovative systems to maximize recovery of useful materials and/or energy in a sustainable way has become necessary. The management of wastes, in particular of industrial waste, in an economically and environmentally acceptable manner is one of the most critical issues facing modern industry, mainly due to the increased difficulties in properly locating disposal works and complying with even more stringent environmental quality requirements imposed by legislation.

Features
► Provides thorough and in-depth coverage of the management/utilization of paper mill sludge ► Cites pertinent research and is of interest to those working in this area or intending to do so ► Discusses methods for conversion of paper mill sludge into valuable products ► Discusses emerging technologies for the treatment/utilization of paper mill sludge ► Presents state-of-the-art waste reduction techniques employed in the pulp and paper industry worldwide

Contents
1. General Introduction.- 2. Generation of Waste in Pulp and Paper Mills.- 3. Composition of Waste.- 4. Sludge Dewatering.- 5. New Technologies for energy recovery from waste.- 6. Options for Utilization of Waste.- 7. Examples of Pulp and Paper Mill Waste Implementation.- 8. Future Prospects.

Fields of interest
Climate Change; Industrial Pollution Prevention

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 190 p. 15 illus., 5 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11787-4

A. Caveen, Seafish, Grimsby, UK; **N. Polunin,** Newcastle University, Newcastle on Tine, UK; **T. Gray, S. M. Stead,** Newcastle University, Newcastle on Tyne, UK

The Controversy over Marine Protected Areas

Science meets Policy

This book is a critical analysis of the concept of marine protected areas (MPAs) particularly as a tool for marine resource management. It explains the reasons for the extraordinary rise of MPAs to the top of the political agenda for marine policy, and evaluates the scientific credentials for the unprecedented popularity of this management option.

Features
► Critical analysis of the concept of marine protected areas (MPAs) as a tool for marine resources management ► Explores the science-policy interface through the scientific discourse surrounding MPAs ► Offers a review of the literature on MPAs

Contents
Chapter One: Introduction.- Chapter Two: The Rise and Rise of the Marine Reserves 'Bandwagon.- Chapter Three: Bibliometric Test of the MR 'Bandwagon'.- Chapter Four: Bias in the Peer-Reviewed Literature, and Crossing the Science/Policy Divide.- Chapter Five: Critique of the Scientific Evidence for Fisheries Benefits of MRs.- Chapter Six: Case study of the 'English Patient'.- Chapter Seven: Conclusion.

Fields of interest
Environmental Management; Environmental Law/Policy/Ecojustice; Freshwater & Marine Ecology

Target groups
Research

Product category
Brief

Due October 2014

2015. XX, 155 p. 26 illus., 8 illus. in color. (SpringerBriefs in Environmental Science) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-10956-5

W. de Vries, Alterra Wageningen University, Wageningen, The Netherlands; **J.-P. Hettelingh, M. Posch,** RIVM – Coordination Centre for Effects, Bilthoven, The Netherlands (Eds)

Critical Loads and Dynamic Risk Assessments

Nitrogen, Acidity and Metals in Terrestrial and Aquatic Ecosystems

This book provides a unique overview of research methods over the past 25 years assessing critical loads and temporal effects of the deposition of air pollutants. It includes critical load methods and applications addressing acidification, eutrophication and heavy metal pollution of terrestrial and aquatic ecosystems.

Features
► Unique complete overview of research methods assessing critical loads and dynamic risk assessments of air pollutants ► Addresses all relevant air pollutant impacts, i.e. acidification, eutrophication and metal pollution ► Includes most recent developments including risks on soil and water chemistry and on biodiversity under climate change

Contents
Part I Assessment of indicators for air pollutant impacts.- Part II Empirical and model based critical loads and target loads.- Part III Dynamic modeling for the assessment of air pollution impacts at site scale.- Part IV Critical loads and dynamic model applications on a regional scale.- Part V Integrated assessment policy applications and synthesis.

Fields of interest
Atmospheric Protection/Air Quality Control/Air Pollution; Environmental Chemistry; Math. Appl. in Environmental Science

Target groups
Research

Product category
Contributed volume

Due December 2014

2014. X, 510 p. 173 illus., 117 illus. in color. (Environmental Pollution, Volume 25) Hardcover
► **approx. *€ (D) 181,85 | € (A) 186,94 | sFr 226,50**
► **approx. € 169,95 | £153.00**
ISBN 978-94-017-9507-4

C. O. Delang, Z. Yuan, Hong Kong Baptist University, Kowloon Tong, Hong Kong SAR

China's Grain for Green Program

A Review of the Largest Ecological Restoration and Rural Development Program in the World

This book provides a comprehensive review of Grain for Green, China's nationwide program which pays farmers to revert sloping or marginal farm land to trees or grass.

Features
► Presents the first multidisciplinary examination of the Grain for Green program ► Offers an integrated approach linking social, economic, institutional, and ecological factors ► Reviews and analyzes the ecological and socio-economic consequences of Grain for Green, as well as the program's sustainability

Contents
Part 1: Why the Grain for Green program?.- Chapter 1 Management of forest resources from 1949 to 1998.- Chapter 2 China's reforestation and rural development programs.- Part 2: Overview of the Grain for Green program.- Chapter 3 Program timeline.- Chapter 4 Farmers' compensation.- Chapter 5 Land selection.- Chapter 6 Plant selection.- Chapter 7 Household selection, participation and attitudes.- Chapter 8 Planning and implementation.- Part 3: The impact of the Grain for Green program.- Chapter 9 Ecological and environmental impact.- Chapter 10 Impact on grain market and price.- Chapter 11 Participants' income levels.- Chapter 12 Labor force redistribution.- Chapter 13 Sustainability of the Grain for Green program.- References.

Fields of interest
Environmental Management; Nature Conservation; Ecosystems

Target groups
Research

Product category
Monograph

Due November 2014

2015. VI, 231 p. 40 illus., 7 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11504-7

M. H. Dore, Climate Change Lab Brock University, St Catharines, ON, Canada

Global Drinking Water Management and Conservation

Optimal Decision-Making

This book discusses different drinking water treatment technologies and what contaminants each treatment method can remove, and at what costs. The production of drinking water requires adequate management. This book attempts to fill the existing knowlegde gap about (a) water treatment technologies and their costs, (b) risk assessment methods, (c) adverse health effects of chemical contaminants, (d) management protocols, and varying regulatory practices in different jurisdictions, and what successes are possible even with small financial outlays. Addressing water consulting engineers, politicians, water managers, ecosystem and environmental activists, and water policy researchers, and being clearly structured through a division in four parts, this book considers theoretical aspects, technologies, chemical contaminants and their possible elimination, and illustrates all aspects in selected international case studies.

Features
► Fills knowledge gaps about water treatment technologies and their costs, risk assessment methods, adverse health effects of chemical contamination, and management protocols ► Suggests improvements for the management of risks and financial viability of the treatment infrastructure, for a better and more healthy drinking water supply for all ► Offers a comparative classification of water treatment technologies and what contaminants they can remove

Fields of interest
Environmental Management; Water Policy/Water Governance/Water Management; Environmental Economics

Target groups
Research

Product category
Monograph

Due October 2014

2015. XVIII, 303 p. 88 illus., 73 illus. in color. (Springer Water) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11031-8

J. Dupuis, P. Knoepfel, Swiss Grad. School Public Administration University of Lausanne, Lausanne, Switzerland

The Politics of Contaminated Sites Management

Institutional Regime Change and Actors' Mode of Participation in the Environmental Management of the Bonfol Chemical Waste Landfill in Switzerland

Contents
1 The Problem and Politics of Contaminated Sites.- 2 Institutions and the Environmental Management of Contaminated Sites: A Theoretical Framework.- 3 Environmental Management and Contaminated Sites in Switzerland.- 4 The Case Study of Bonfol Chemical Landfill: Logic of Selection, Data And Methods.- 5 Episode I: The Establishment of a Chemical Landfill in Bonfol Under the First Generation of Environmental Regulations (1955-1970).- 6 Episode II: The Closure Of Bonfol Chemical Landfill, the First Remediation Project, and the Second Generation of Environmental Regulations 1971-1994.- 7 Episode III: The Birth of a Contaminated Sites Policy and the Struggle Over the Definitive Remediation of the Bonfol Site (1995-2000).- 8 Episode IV: The Consolidation of the Institutional Regime for Contaminated Site, and the Gambling on the Remediation Objectives, Methods and Funding of the Bonfol site 2000-2008.- 9 Concluding Discussion: Institutional Regimes and Modes of Participation and Interaction in Environmental Decision-Making.

Fields of interest
Environmental Management; Comparative Politics; Environmental Law/Policy/Ecojustice

Target groups
Research

Product category
Monograph

Due October 2014

Original Edition published by IDHEAP, Lausanne, Switzerland, 2013

Korr. Nachdruck 2015. III, 170 p. 24 illus., 6 illus. in color. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11306-7

N. P. Gleditsch, Peace Research Institute Oslo (PRIO), Oslo, Norway (Ed)

Nils Petter Gleditsch: Pioneer in the Analysis of War and Peace

This book presents Nils Petter Gleditsch, a staff member of the Peace Research Institute of Oslo (PRIO) since 1964, a former editor of the Journal for Peace Research (1983-2010), a former president of the International Studies Association (2008-2009) and the recipient of several academic awards as a pioneer in the scientific analysis of war and peace. This unique anthology covers major themes in his distinguished career as a peace researcher.

Features
► As Editor of Journal of Peace Research for 27 years, former President of the International Studies Association and the recipient of several academic awards, he has a high profile in peace research and international relations ► Addresses key topics in peace research ► This book is the only one of its kind - there will be no Festschrift or autobiography

Contents
Personal retrospective & What's next.- Bibliography.- Time Differences and International Interaction.- Focus On: Democracy and Peace.- The Treholt Case – A Review of the Literature.- Armed Conflict and the Environment. A Critique of the.- The Liberal Moment Fifteen Years On'. Presidential Address, International Studies Association.- Whither the Weather? Climate Change and Conflict.- The Decline of War – The Main Issues.

Fields of interest
Environmental Law/Policy/Ecojustice; International Relations; Climate Change Management and Policy

Target groups
Research

Product category
Brief

Due December 2014

2014. 154 p. (SpringerBriefs on Pioneers in Science and Practice, Volume 30) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-03819-3

M. Hersh, University of Glasgow, Glasgow, UK (Ed)

Ethical Engineering for International Development and Environmental Sustainability

Ensuring that their work has a positive influence on society is both the privilege and responsibility of engineers.

Features
► Gives readers an understanding of how decisions and activities in their day-to-day working lives can make an important contribution to resolving or escalating the issues of environmental and international stability ► Contributes to giving further depth to readers' understanding and knowledge of ethical issues by providing international and interdisciplinary perspectives ► The organisation of the book makes it easy for readers to find the information they want and allows them to read it straight through or dip in and out

Contents
From the Contents: Part I Introduction.- Introduction and Overview.- Ethical Engineering: Whom Does It Server?.- Part II Ethical Impacts of Advanced Applications of Technology.- Introduction and Overview.- Robot-ethics.- Part III Engineering Ethics and Sustainable Development.- Introduction and Overview.- The Principia Nature.- Green Branding and Eco-innovations for Evolving a Sustainable Green Marketing Strategy.- The Environmental and Social Impacts of Bathing.- Part IV Engineering Ethics, Development and International Stability.- Introduction and Overview.- Barriers to Ethical Behaviour and Stability: Stereotyping and Scapegoating as Pretexts for Avoiding Responsibility.- Part V Conclusions.- Conclusions and Proposals for the Future.

Fields of interest
Sustainable Development; Ethics; Engineering, general

Target groups
Research

Product category
Monograph

Due February 2015

2015. XX, 650 p. 155 illus., 5 illus. in color. Hardcover
► **approx. *€ (D) 181,85 | € (A) 186,94 | sFr 226,50**
► **approx. € 169,95 | £153.00**
ISBN 978-1-4471-6617-7

C. Hull, Hydro Tasmania, Hobart, TAS, Australia; **E. Bennett,** Elmoby Ecology, Creswick, VIC, Australia; **E. Stark,** Symbolix Pty Ltd, Williamstown North, VIC, Australia; **I. Smales,** Biosis Pty Ltd, Port Melbourne, VIC, Australia; **J. Lau,** BirdLife Australia, Carlton, VIC, Australia; **M. Venosta,** Biosis Pty Ltd, Port Melbourne, VIC, Australia (Eds)

Wind and Wildlife

Proceedings from the Conference on Wind Energy and Wildlife Impacts, October 2012, Melbourne, Australia

Contents

Introduction.- Session 1: Investigations and assessments of new wind farms.- Predicting the weather-dependent collision risk for birds at wind farms.- Fauna collisions with wind turbines: effects and impacts, individuals and populations. What are we trying to assess?.- Wind farms and biodiversity: improving environmental risk assessments.- The use of aerial surveys for the detection of the brolga Grus rubicunda through south-west Victoria: key considerations for the wind industry.- Planning for net biodiversity gains: a case study of Hauāuru mā raki wind farm, New Zealand.- Session 2: Monitoring, mitigation and offsets.- Results and analysis of eagle studies from the Bluff Point and Studland Bay Wind Farms 2002 – 2012.- Observations from the use of dogs to undertake carcass searches at wind facilities in Australia.- Key learnings from ten years of monitoring and management interventions at the Bluff Point and Studland Bay Wind Farms: results of a review.- Summary of panel session.

Fields of interest

Nature Conservation; Life Sciences, general; Environmental Management

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. XIII, 250 p. 24 illus., 20 illus. in color. Hardcover

► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**

► **€ 79,99 | £72.00**

ISBN 978-94-017-9489-3

G. Kaushik, Central University of Rajasthan, Kishangarh, India (Ed)

Applied Environmental Biotechnology: Present Scenario and Future Trends

Features

► Written by a distinguished panel of experts in the field of biotechnology ► Offers theories and principles that are crucial for solving pollution problems in the modern era ► Emphasizes theories and principles of environmental microbiology and biotechnology

Contents

Chapter 1 - Bioremediation Technology: A greener and sustainable approach for restoration of environmental pollution.- Chapter 2- Bioremediation of Distillery spent wash by microorganisms.- Chapter 3- In-silico approach to study the regulatory mechanisms and pathways of industrially important microorganisms.- Chapter 4- Microbial Diversity: Its Exploration and Need of Conservation.- Chapter 5 – Phytoremediation: A Biotechnological Intervention.- Chapter 6 - Ameliorative approaches for management of chromium phytotoxicity: Current promises and future directions.- Chapter 7 - Management of environmental phosphorus pollution using phytases: Current challenges and future prospects.- Chapter 8- Sustainable production of biofuels from microalgae using a biorefinary approach.- Chapter 9- Oil Spill Clean-up: Role of Environmental Biotechnology.- Chapter 10- Bioelectrochemical Systems (BES) for Microbial Electroremediation: An Advanced Wastewater Treatment Technology.

Fields of interest

Environmental Engineering/Biotechnology; Environmental Management; Environment, general

Target groups

Research

Product category

Contributed volume

Due December 2014

2015. Approx. 190 p. 29 illus., 17 illus. in color. Hardcover

► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**

► **€ 79,99 | £72.00**

ISBN 978-81-322-2122-7

W. Kuckshinrichs, Forschungszentrum Jülich IEF-STE, Jülich, Germany; **J.-F. Hake,** IEK-STE Jülich Research Centre, Jülich, Germany (Eds)

Carbon Capture, Storage and Use

Technical, Economic, Environmental and Societal Perspectives

Contents

Introduction.- 1. Carbon Capture and Utilization as an Option for Climate Change Mitigation: Integrated Technology Assessment.- Part I- Technologies: Status and R&D Prospects.- 2. Carbon Capture Technologies.- 3. CO2 Transportation.- 4. Opportunities for Utilizing and Recycling CO2.- 5. Environmental Aspects of CCS.- 6. Safe Operation of Geological CO2 Storage Using the Example of the Pilot Site in Ketzin.- Part II - Economic and Social Perspectives.- 7. Economic Analysis of Carbon Capture in the Energy Sector.- 8. Cost Analysis for CCS in Selected Carbon-Intensive Industries.- 9. CCS Transportation Infrastructures: Technologies, Costs, and Regulation.- 10. The System Value of CCS Technologies in the Context of CO2 Mitigation Scenarios for Germany.- 11. Public Acceptance.- Part III - Framework for Energy and Climate Policy.- 12. No CCS in Germany Despite the CCS Act.- 13. CCS Policy in the EU: Will It Pay Off or Do We Have to Go Back to Square One?.- 14. International Cooperation in Support of CCS.- Part IV - Conclusion.- 15. Evaluation Index of Carbon Capture and Utilization: A German Perspective and Beyond.

Fields of interest

Environmental Management; Energy Systems; Fossil Fuels (incl. Carbon Capture)

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. Approx. 300 p. Hardcover

► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **€ 99,99 | £90.00**

ISBN 978-3-319-11942-7

Z. Li, Chinese Academy of Sciences, Lanzhou, China

Study on Climate Change in Southwestern China

This thesis confirms many changes, including sharp temperature rise, interannual variability of precipitation, extreme climate events and significant decreases of sunshine duration and wind speed in southwestern China, and systemically explores the action mechanism between large-scale atmospheric circulation systems, the complicated topography, human activities and regional climate changes. This study also analyzes the response of glaciers to climate change so that on the one hand it clearly reflects the relationship between glacier morphologic changes and climate change; on the other, it reveals the mechanism of action of climate warming as a balance between energy and matter. The achievements of this study reflect a significant contribution to the body of research on the response of climate in cold regions, glaciers and human activities to a global change against the background of the typical monsoon climate, and have provided scientific basis for predictions, countermeasures against disasters from extreme weather, utilization of water and the establishment of counterplans to slow and adapt to climate change.

Features
► Nominated by Chinese Academy of Sciences as an outstanding Ph.D. thesis ► Offers a needed exploration of the temporal and spatial pattern of climate change in southwestern China ► Explores the action mechanism among the large-scale atmospheric circulation system, the complicated topography, human activities and regional climate changes ► Analyzes the response of glaciers to climate change from the aspects of morphology of the glacier, glacial mass balance and the process of hydrology

Fields of interest
Climate Change; Climatology; Meteorology

Target groups
Research

Product category
Monograph

Due November 2014

2014. 220 p. 87 illus., 41 illus. in color. (Springer Theses) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-662-44741-3

E. Lichtfouse, INRA, Dijon, France; **J. Schwarzbauer,** RWTH Aachen University, Aachen, Germany; **D. Robert,** Université de Lorraine, Saint-Avold, France (Eds)

CO2 Sequestration, Biofuels and Depollution

Water is the driving force of all nature. This old quote from Leonardo da Vinci remind us that without water life is simply not possible. As a consequence, water is probably the most important wealth for humanity.

Features
► Broadens the understanding of pollutants in drinking water, and their remediation ► Maximizes reader insights into greenhouse gas CO2 emission and sequestration ► Among other topics looks at biofuels from plant and algae, biosafety risk of genetically modified crops, chlorine for water disinfection, foundry air pollution and more

Contents
1. Chlorine for water disinfection: properties, applications and health effects.- 2. Greenhouse gas from organic waste composting: emissions and measurement.- 3. CO2 photocatalytic reduction: photocatalyst choice and product selectivity.- 4. Fluoride in drinking water: health effects and remediation.- 5. Selenium in agriculture. Water, air, soil, plants, food, animals and nanoselenium.- 6. Biofuels: bioethanol, biodiesel, biogas, biohydrogen from plants and microalgae.- 7. Digestion tests to measure heavy metal bioavailability in soils.- 8. Biosafety risk of genetically modified crops containing Cry genes.- 9. Foundry air pollution: hazards, measurements and control.- 10. Lignolytic enzymes for water depollution, coal breakdown, and paper industry.

Fields of interest
Environmental Chemistry; Climate Change; Environmental Engineering/Biotechnology

Target groups
Research

Product category
Contributed volume

Due January 2015

2014. X, 470 p. 76 illus., 27 illus. in color. (Environmental Chemistry for a Sustainable World, Volume 5) Hardcover
► **approx. *€ (D) 139,05 | € (A) 142,94 | sFr 173,00**
► **approx. € 129,95 | £117.00**
ISBN 978-3-319-11905-2

B. Notarnicola, University of Bari, Bari, Italy; **R. Salomone,** University of Messina, Messina, Italy; **L. Petti,** University of Chieti-Pescara, Pescara, Italy; **P. A. Renzulli, R. Roma,** University of Bari, Bari, Italy; **A. K. Cerutti,** University of Turin, Grugliasco, Italy (Eds)

Life Cycle Assessment in the Agri-food Sector

Case Studies, Methodological Issues and Best Practices

Features
► Update of all the methodological problems of Food LCA ► Identification of the main foods from five food sectors which are very important for the international economy ► Detailed review of all the LCA studies on these foods ► Definition of methodological issues ► Identification of hot spots ► Definition of practical guidelines for these foods

Contents
Foreword.- Preface.- 1 Life Cycle Assessment in the agri-food sector: an overview of its key aspects, international initiatives, certification, labelling schemes and methodological issues.- 2 Life cycle assessment in the olive oil sector.- 3 Life Cycle Assessment in the wine sector.- 4 Life cycle assessment in the cereal and derived products sector.- 5 Life cycle assessment in the livestock and derived edible products sector.- 6 Life cycle assessment in the fruit sector.- Conclusions.

Fields of interest
Environmental Management; Sustainable Development; Environment, general

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 420 p. Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 133,50**
► **approx. € 99,95 | £90.00**
ISBN 978-3-319-11939-7

Reviews of Environmental Contamination and Toxicology

Continuation of Residue Reviews

Volume 235

D. M. Whitacre, Summerfield, NC, USA (Ed)

Reviews of Environmental Contamination and Toxicology Volume 235

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Features

► Provides detailed reviews worldwide to key scientists and science or policy administrators ► Supplies scientific review articles on all aspects of environmental contamination and associated toxicological consequences ► Facilitates the task of accessing and interpreting cogent scientific data within closely related research fields

Contents

1. Factors Influencing the Toxicity, Detoxification and Biotransformation of Paralytic Shellfish Toxins.- 2. Sources, Fluxes, and Biogeochemical Cycling of Silver in the Oceans.- 3. DDT, Chlordane, Toxaphene and PCB Residues in Newport Bay and Watershed: Assessment of Hazard to Wildlife and Human Health.

Fields of interest

Ecotoxicology; Environmental Management; Waste Management/Waste Technology

Target groups

Research

Product category

Contributed volume

Due October 2014

2015. IV, 192 p. 40 illus. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-10860-5

J. Schwarzbauer, RWTH Aachen University, Aachen, Germany; **B. Jovancicevic,** University of Belgrade, Belgrado, Serbia

Fossil Matter in the Geosphere

The first volume in this new text book series covers comprehensively relevant aspects related to the appearance and characterisation of fossil matter in the geosphere such as kerogen, oil, shales and coals. As organic geochemistry is a modern scientific subject characterized by a high transdisciplinarity and located at the edge of chemistry, environmental sciences, geology and biology, there clearly is a need for a flexible offer of appropriate academic teaching material on an undergraduat level addressed to the variety of students coming originally from different study disciplines. For such a flexible usage this textbook series' consists of different volumes with clear defined aspects and with manageable length.

Features

► Presents an overview on the diversity and properties of fossil material on earth ► Focuses on principal aspects about origin and transformation of organic matter in geosphere ► Looks at the most important forms of fossil organic matter ► Marries the disciplines chemistry and geology

Contents

1. Origin and transformations of organic matter in geosphere.- 2. Main types of organic matter in geosphere.- 3. Minerals in sediments and their impact on the changes of organic substances in geosphere.- 4. Coals.- 5. Oil shales.

Fields of interest

Environmental Chemistry; Geochemistry; Biogeosciences

Target groups

Research

Product category

Graduate/Advanced undergraduate textbook

Due November 2014

2015. X, 190 p. 70 illus., 60 illus. in color. (Fundamentals in Organic Geochemistry) Hardcover
► **approx. *€ (D) 83,24 | € (A) 83,94 | sFr 98,00**
► **approx. € 69,95 | £62.99**
ISBN 978-3-319-11552-8

R. van der Duim, Wageningen University, Wageningen, The Netherlands; **M. Lamers,** Wageningen, The Netherlands; **J. van Wijk,** Maastricht School of Management, Maastricht, The Netherlands (Eds)

Institutional Arrangements for Conservation, Development and Tourism in Eastern and Southern Africa

A Dynamic Perspective

Contents

Preface.- Chapter 1. Novel institutional arrangements for tourism, conservation and development in eastern and southern Africa.- Chapter 2. From exploitation to ownership: Wildlife-based tourism and communal area conservancies in Namibia.- Chapter 3. The Tsiseb conservancy: how communities, the state and the market struggle for its success.- Chapter 4. Community-based natural resource management in Botswana.- Chapter 5. Community Empowerment through Community-based Tourism: The Case of Chobe Enclave Conservation Trust in Botswana.- Chapter 6. Private game reserves in Southern Africa.- Chapter 7. False legitimacies: The rhetoric of economic opportunities in the expansion of conservation areas in southern Africa.- Chapter 8. Hunting for conservation? The re-introduction of sport hunting in Uganda examined.- Chapter 9. The evolution and progression of Transfrontier Conservation Areas in the Southern African Development Community.- Chapter 10. The Selous-Niassa Transfrontier Conservation Area and Tourism: Evolution, Benefits and Challenges.- Chapter 11. Promoting conservation tourism: The case of the African Wildlife Foundation's tourism conservation enterprises in Kenya. [...]

Fields of interest

Environment, general; Tourism Management; Social Sciences, general

Target groups

Graduate

Product category

Contributed volume

Due November 2014

2015. Approx. 250 p. 15 illus., 5 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-94-017-9528-9

C. T. Yang, Colorado State University, Fort Collins, CO, USA; **L. K. Wang,** Rutgers University, New Brunswick, NJ, USA (Eds)

Advances in Water Resources Engineering

Features
► Suitable for both academics and professionals ► Includes comprehensive glossary of water engineering terms ► Complements Handbook of Environmental Engineering Volume 15: Modern Water Resources Engineering

Contents
1. Watershed Sediment Dynamics and Modeling: A Watershed Modeling System for the Yellow River.- 2. Integrated Simulation of Interactive Surface Water and Ground Water Systems.- 3. River-Channel Stabilization with Submerged Vanes.- 4. Mathematic Modeling of Non-Equilibrium Sediment Transport, Reservoir Sedimentation, and Fluvial Processes.- 5. Minimum Energy Dissipation Rate Theory and its Applications for Water Resources Engineering.- 6. Hydraulic Modeling Development and Applications in Water Resources.- 7. Geophysical Methods for the Assessment of Earthen Dams.- 8. Soil Erosion on Upland Areas by Rainfall and Overland Flow.- 9. Advances in Geofluvial Modeling: Methodologies and Applications.- 10. Environmental and Water Engineering Glossary.

Fields of interest
Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Engineering Fluid Dynamics; Environmental Science and Engineering

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 560 p. 223 illus., 122 illus. in color. (Handbook of Environmental Engineering, Volume 14) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-3-319-11022-6

L. Zsolnai, Corvinus University of Budapest, Hungary, , Hungary (Ed)

The Spiritual Dimension of Business Ethics and Sustainability Management

Contents
Part 1 New Perspectives and FindingsAre there non-trivial lessons from the crisis for the business as „non-usual"? Alpar Losoncz Spiritual Sustainability Management - A Utopian Gift?; Hendrik OpdebeeckReanimation of Nature; Imre Lázár Deep Ecology and Personal Responsibility; Knut J. ImsSpiritual orientation to nature in Buddhism; Gábor Kovács Sustainability and Wisdom: The Power of the Fable; Rita GhesquièrePart 2 Innovative Practices and Policy ReformsThe Global Paradigm Shift: Positioning Spirituality and Sustainable Progress; Jean-Paul CloseFinancial Ethics after the Crisis;Aloy Soppe The Forgotten Half of Sustainability & Leadership: The Inner Dimension/Perspective – the Sufi Approach; András László Sustainable Agriculture as Spiritual-Based Entrepreneurship; Arundhati Virmani and François Lépineux Entrepreneurship Inspired by Nature; Nel Hofstra Perspectives on Value Based Leadership; Ove JacobsenPart 3 OpinionsIs Spirituality Needed for Achieving Sustainability?; Diana Schumacher, Luk Bouckaert, Mary Evelyn Tucker, John Adams and Sanjoy Mukherjee Part 4 DebateSpiritually-based Leadership; Peter Pruzan

Fields of interest
Sustainable Development; Ethics; Business Strategy/Leadership

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 240 p. 20 illus. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11676-1

A. A. Ansari, University of Tabuk, Saudi Arabia;
S. S. Gill, R. Gill, MD University, Rohtak, India;
G. R. Lanza, L. Newman, State University of New York, Syracuse, NY, USA (Eds)

Phytoremediation

Management of Environmental Contaminants, Volume 2

Features

► Written by the world's leading authorities on phytoremediation ► Contains the latest case studies and applied techniques of phytoremediation ► Elucidates groundbreaking methods for the production of plants to degrade or absorb the effects of pollutants

Contents

Improved Quality Of Abattoir Wastewaer Through Phytoremediation.- Phytoremediation Of Contaminated Waters To Improve Water Quality.- On-Site And Full-Scale Applications Of Phytoremediation To Repair Aquatic Ecosystems With Excess Metals.- Phytoremediation Of Eutrophic Waters.- Phytoremediation Of Water And Wastewater: On-Site And Full-Scale Applications.- Interaction Of Algae-Bacteria Consortia: A New Application Of Heavy Metals Bioremediation.- Heavy Metals Phytoremediation From Urban Waste Leachate By The Common Reed (Phagmites Australis).- Cyanobacteria As Potential Options For Wastewater Treatment.- Phytoremediation Using Rhizobia.- Phytoremediation Of Heavy Metals:the Use Of Green Approaches To Clean The Environment.- Phytoremediation Using Legiminous Plants: Managing Cadmium Stress With Application Of Arbuscular Mycorrhiza (Am) Fungi.- Phytoremediation Of Copper-Contaminated Soil.- Phytoremediation Of The Metalloid Selenium In Soil And Water. [...]

Fields of interest
Plant Ecology; Plant Physiology; Plant Biochemistry

Target groups
Research

Product category
Contributed volume

S. A. Aziz, Health Canada, University of Ottawa, Ottawa, ON, Canada; **R. Mehta,** Health Canada, Ottawa, ON, Canada (Eds)

Toxicological Immunohistochemistry

Features

► Provides a comprehensive review of the methods and approaches for immunohistochemical staining in various target tissues ► Explores the latest enhancement procedures for antigen retrieval and visualization as well as image analysis and antigen quantification ► Important reference for immunohistochemical methods aimed at investigating the toxicologic pathology of rodent, non-human primate and aquatic animal tissues

Contents

1 Antigen Retrieval.- 2 Tissue Microarray and its importance in Toxicology.- 3 Significance of Double immunostain in Toxicology.- 4 The role of apoptosis and its marker in toxicological evaluation.- 5 Toxicological effect of apoptosis and proliferation.- 6 Biomarkers of skeletal muscle injury in the rat.- 7 Breast tumour markers; a toxicological evaluation in rodents.- 8 Rodent colon markers.- 9 Immunohistochemistry of intestinal track.- 10 Evaluation of Lung Immunohistochemistry in rodent.- 11 Immunohistochemistry of circulatory organ.- 12 Role of lymhoid Markers in toxicological immunohistochemistry.- 13 Mucosa-associated lymphoid tissue.- 14 Markers of neuro Immunohistochemistry.- 15 Rat astrocytomas and malignant reticulosis.- 16 Bone Marrow Markers.- 17 Aquatic Immunohistochemistry Toxicology.- 18 Importance of Comparative Genomic Hybridization in rodent tumour.

Fields of interest
Cell Biology; Pharmacology/Toxicology; Biological Microscopy

Target groups
Professional/practitioner

Product category
Contributed volume

L. M. Boukharaeva, M. Marloie, Sceaux, France

Family Urban Agriculture in Russia

Lessons and Prospects

The book results from research carried out by the authors since 1999 on urban gardening collectives in Russia, then from the extension of this research towards collective urban gardening in France, with some investigations in other European Union Member States and Brazil. This research was carried out within the framework of Kazan University (currently, the Institute of Administration and Territorial Development of the Federal University of Kazan) and the French National Institute for Agricultural Research (INRA).

Contents

Notice.- Preamble: Heal the World.- Chapter I. Introduction.- Chapter II. The palimpsest of urban gardening in Russia.- Chapter III. A new civil right won under the Soviet regime.- Chapter IV. A post-Soviet phenomenon.- Chapter V. The Russian Urban Grower: representations and practices.- Chapter VI. In favour of a new perspective.- Chapter VII. A continental rhizome: gardening policies and visions of society.- Chapter VIII. Western and Southern Europe viewed from a Russian perspective.- Chapter IX. Universal meaning.- Annexes.- Annex 1. The capitals: Moscou, Saint-Pétersbourg, Kazan.- Annex 2. The collective gardens "War Veterans".- Annex 3. The collective gardens "No. 7 of the Aircraft Engine Manufacturing Company/ KMPO Kazan": massif Soukhaya rieka.- Annex 4. The collective gardens "Victoria Island".- List of boxes, diagrams, documents, maps, photography's, tables.- Bibliography.- Glossary.- General Summary.

Fields of interest
Agriculture; Urban Ecology; Sustainable Development

Target groups
Research

Product category
Monograph

Due December 2014

2014. 317 p. 72 illus., 37 illus. in color. Hardcover
► approx. *€ (D) 165,84 | € (A) 170,49 | sFr 206,50
► approx. € 154,99 | £139.50
ISBN 978-3-319-10968-8

Due March 2015

2015. Approx. 300 p. Hardcover
► approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50
► approx. € 139,99 | £126.50
ISBN 978-1-4939-1515-6

Due January 2015

2015. V, 295 p. 56 illus., 42 illus. in color. (Urban Agriculture) Hardcover
► approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50
► approx. € 139,99 | £126.00
ISBN 978-3-319-11613-6

G. Brandacher, Johns Hopkins University School of Medicine, Baltimore, MD, USA (Ed)

The Science of Reconstructive Transplantation

Contents

Foreword.- 1. Small Animal Models for Reconstructive Transplantation.- 2. Use of Large Animal and Nonhuman Primate Models for Reconstructive Transplantation.- 3. Unique Immunological Features of Vascularized Composite Allografts.- 4. Immunological Differences Between Face and Extremity Transplants.- 5. Advances in Diagnosing Skin Rejection and Immune Monitoring.- 6. Bayesian Classifier and Molecular Marker Platforms for Immune Monitoring.- 7. Migration and Communication Patterns in Skin Rejection.- 8. Antibody Mediated Rejection in Reconstructive Transplantation.- 9. The Influence of Skin-specific Antigen Presenting Cells on Immunogenicity of Vascularized Composite Allografts.- 10. Chronic Rejection in Reconstructive Transplantation.- 11. Cell-based Immunomodulatory Concepts and Tolerance Protocols for Reconstructive Transplantation.- 12. Mixed Chimerism for Tolerance Induction to Vascularized Composite Allografts.- 13. Bone Marrow Derived ex vivo Created Hematopoietic Chimeric Cells to Support Engraftment and Maintain Long-term Graft Survival in Reconstructive Transplantation.- 14. Mesenchymal Stem Cells (MSCs) as Immune Modulators in VCA.- 15. Costimulation Blockade in Reconstructive Transplantation.- 16. Strategies for Gene Transfer to Vascularized Composite Allografts.- 17. Models and Tools to Assess Nerve Regeneration and Functional Outcomes.- 18. Stem Cells as a Means to Enhance Neuro Regeneration after Reconstructive Transplantation.- 19. Cortical Reintegration of Vascularized Composite Allografts. [...]

Fields of interest

Stem Cells; Transplant Surgery; Plastic Surgery

Target groups

Research

Product category

Contributed volume

Due February 2015

2014. X, 378 p. (Stem Cell Biology and Regenerative Medicine) Hardcover

► approx. *€ (D) 165,80 | € (A) 170,44 | sFr 206,50

► approx. € 154,95 | £139.50

ISBN 978-1-4939-2070-9

H. Budak, Sabanci University Faculty of Engineering, Istanbul, Turkey; **G. Spangenberg,** La Trobe University Department of Environment, Bundoora, VIC, Australia (Eds)

Molecular Breeding of Forage and Turf

The Proceedings of the 8th International Symposium on the Molecular Breeding of Forage and Turf

Contents

Deciphering Drought Tolerance in Tall Fescue [Lolium arundinaceum.- Evaluation of perennial ryegrass association mapping population for freezing tolerance traits.- Tools for Accelerating Genetic Gain in Brachiagrass at CIAT.- A new red clover 2,4-D-resistant cultivar to improve broadleaf weed control and elucidate the molecular mechanism of resistance.- Interactions of vernalization and cold hardening in Lolium perenne revealed by RNA-sequencing.- Variation in genome size, germination and establishment of Iranian wild Festuca arundinacea populations under dry soil conditions.- A Galega orientalis aquaporin protein, is negative to drought stress tolerance.- Genome-wide analysis of AP2/ERF family genes in Lotus corniculatus and functional characterization of LcERF054 and LcERF080 in Arabidopsis.- Elucidating transcripts responsive to Zn-deficiency in Agrostis species.- Candidate gene approach in Miscanthus spp. for biorefinery.- Field Evaluation of Transgenic Perennial Ryegrass (L. perenne L.) with Altered Fructan Metabolism.- Economics - the forgotten '-omics': estimating the value of molecular breeding of pastures for dairy production.- Genome and transcriptome analysis in perennial ryegrass.- Methods for association genetics analysis in ryegrasses. [...]

Fields of interest

Plant Breeding/Biotechnology; Plant Genetics & Genomics; Renewable and Green Energy

Target groups

Research

Product category

Contributed volume

Due February 2015

2015. 350 p. Hardcover

► approx. *€ (D) 32,09 | € (A) 32,99 | sFr 40,50

► approx. € 29,99 | £27.99

ISBN 978-3-319-08713-9

R. Derda, University of Alberta, Edmonton, AB, Canada (Ed)

Peptide Libraries

Methods and Protocols

Contents

Design, Synthesis and Application of OB2C Combinatorial Peptide and Peptidomimetic Libraries.- Synthesis of Macrocyclic Organo-Peptide Hybrids from Ribosomal Polypeptide Precursors via Cu-AAC-/Hydrazide-Mediated Cyclization.- Synthesis and Screening of One-Bead-One-Compound Cyclic Peptide Libraries.- Creating Site-Specific Isopeptide Linkages Between Proteins with the Traceless Staudinger Ligation.- Macrocyclic Templates for Library Synthesis of Peptido-Conjugates.- Synthesis and Alkylation of aza-Gly-Pro Building Blocks of Peptidomimetic Libraries for Developing Prostaglandin F2α Receptor Modulators as Therapeutics to Inhibit Preterm Labour.- A Fragment Based Selection Approach for the Discovery of Peptide Macrocycles Targeting Protein Kinases.- Peptide and Peptide Library Cyclization Via Bromomethyl Benzene Derivatives.- Phage Selection of Bicyclic Peptides Based on Two Disulfide Bridges.- De Novo Discovery of Bioactive Cyclic Peptides Using Bacterial Display and Flow Cytometry.- Chemical Post-Translational Modification of Phage-Displayed Peptides.- Mapping Protein-Protein Interactions with Phage-Displayed Combinatorial Peptide Libraries and Alanine-Scanning.- Identifying Reactive Peptides from Phage-Displayed Libraries.- The Best and the Brightest: Exploiting Tryptophan-Sensitized Tb3+ Luminescence to Engineer Lanthanide-Binding Tags.- Synthesis and Cell-Based Screening of One-Bead One-Compound Peptide Libraries.- Screening Peptide Array Library for the Identification of Cancer Cell Binding Peptides.- Next Generation Sequencing of Phage-Displayed Peptide Libraries. [...]

Field of interest

Protein Science

Target groups

Professional/practitioner

Product category

Contributed volume

Available

2014. 260 p. 86 illus., 17 illus. in color. (Methods in Molecular Biology, Volume 1248) Hardcover

► approx. *€ (D) 96,29 | € (A) 98,99 | sFr 117,50

► approx. € 89,99 | £79.50

ISBN 978-1-4939-2019-8

M. Farooq, University of Agriculture, Faisalabad, Pakistan; **K. Siddique,** The University of Western Australia, Crawley, Australia (Eds)

Conservation Agriculture

Contents

Part 1: Introduction.- 1. Conservation Agriculture: Concepts, Brief History and Impacts on Agricultural Systems.- Part 2: Elements of Conservation Agriculture.- 2. Crop Rotations and Residue Management in Conservation Agriculture.- 3. Weed Management in Conservation Agriculture Systems.- 4. Nutrient Management Perspectives in Conservation Agriculture.- 5. Farm Machinery for Conservation Agriculture.- 6. Insect Pest Management in Conservation Agriculture.- Part 3: Modeling and Crop Improvement for Conservation Agriculture.- 7. Breeding for Conservation Agriculture.- 8. Modeling Conservation Agriculture.- Part 4: Status of Conservation Agriculture: some case studies.- 9. Conservation Agriculture in the Middle East.- 10. Explaining Adoption and Measuring Impacts of Conservation Agriculture on Productive Efficiency, Income, Poverty and Food Security in Syria.- 11. Conservation Agriculture in South Asia.- 12. Conservation Agriculture in South East Asia.- 13. Conservation Agriculture in Rainfed Areas of China.- 14. Conservation Agriculture in Australia and New Zealand.- 15. Conservation Agriculture in Europe.- 16. Conservation Agriculture in Latin America.- 17. Conservation Agriculture in North America.- 18. Conservation Agriculture in Sub-Saharan Africa.- Part 5: Conservation Agriculture in Agricultural Systems.- 19. Conservation Agriculture and Soil Carbon Sequestration.- 20. Application of Microbiology in Conservation Agriculture.- 21. Conservation Agriculture in Organic Farming: Experiences, Challenges and Opportunities. [...]

Fields of interest

Agriculture; Environmental Management; Soil Science & Conservation

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. Approx. 500 p. 40 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-11619-8

Y. Gao, Peking Union Medical College & Chinese A Institute of Basic Medical Sciences, Beijing, China (Ed)

Urine Proteomics in Kidney Disease Biomarker Discovery

Features

► Detailed summarizes of urine sample preparation for proteomics analysis ► Covers a wide range of proteomics technologies ► Describes the urine proteome change under various physiological conditions

Contents

Urine is a better biomarker source than blood especially for kidney diseases.- Urine reflection of changes in blood.- Urimem facilitates kidney disease biomarker research.- Human Urine proteome: a powerful source for clinical research.- Exosomes in urine biomarker discovery.- Urinary proteins with post-translational modifications.- Applications of peptide retention time in proteomic data analysis.- Urine Sample Preparation in 96-Well Filter Plates to characterize inflammatory and infectious diseases of the Urinary Tract.- Variations of human urinary proteome.- Evolution of the urinary proteome during human renal development and maturation.- Hormone-dependent changes in female urinary proteome.- Effects of exercise on the urinary proteome.- Effects of Diuretics on Urinary Proteins.- Applications of urinary proteomics in renal disease research using animal models.- The application of urinary proteomics for the detection of biomarkers of kidney diseases.- Dynamic changes of urinary proteins in focal segmental glomerulosclerosis model.- Using isolated rat kidney to discover kidney origin biomarkers in urine.- Comparing plasma and urinary proteomes to understand kidney function.- Urinary Protein Biomarker Database: A Useful Tool for Biomarker Discovery

Fields of interest

Proteomics; Nephrology; Molecular Medicine

Target groups

Research

Product category

Monograph

Due February 2015

2015. Approx. 200 p. 25 illus., 10 illus. in color. (Advances in Experimental Medicine and Biology, Volume 845) Hardcover
► **approx. *€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **approx. € 139,99 | £126.00**
ISBN 978-94-017-9522-7

D. Gavin, University of Oregon, Eugene, OR, USA; **L. B. Brubaker,** University of Washington, Seattle, WA, USA

Late Pleistocene and Holocene Environmental Change on the Olympic Peninsula, Washington

This study brings together decades of research on the modern natural environment of Washington's Olympic Peninsula, reviews past research on paleoenvironmental change since the Late Pleistocene, and finally presents paleoecological records of changing forest composition and fire over the last 14,000 years. The focus of this study is on the authors' studies of five pollen records from the Olympic Peninsula. Maps and other data graphics are used extensively.

Features

► Offers reviews of past studies of the Olympic Peninsula as well as new data and analysis from the authors ► Updated presentation and analysis of studies from the 1950s through 1980s offers a historical baseline and exposes readers to previously inaccessible data ► The records presented show how climate change of the late Pleistocene and Holocene periods affected the biodiversity of the Olympic Peninsula ► This data sheds light on the potential impacts of projected climate change

Contents

1. The modern landscape of the Olympic Peninsula.- 2. Geology and historical biogeography of the Olympic Peninsula.- 3. Postglacial climate on the Olympic Peninsula.- 4. Late Quaternary vegetation and fire history of the Olympic Peninsula.- 5. Brief review of the archeological record in a context of environmental change.- 6. Insights and future research needs.

Fields of interest

Plant Ecology; Climate Change; Environmental Geography

Target groups

Research

Product category

Monograph

Due November 2014

2015. I, 111 p. 51 illus., 36 illus. in color. (Ecological Studies, Volume 222) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11013-4

Y. Kanayama, Tohoku University, Sendai, Japan; **A. Kochetov,** Institute of Cytology & Genetics, Russian Academy of Sciences, Novosibirsk, Russia (Eds)

Abiotic Stress Biology in Horticultural Plants

The purpose of this publication is to elucidate the biological aspect of the abiotic stress response from the field to the molecular level in horticultural plants. This book is unique in that it concerns the basic aspect of abiotic stress biology and research progress at the molecular level in model plants or major field crops, as it focuses mainly on the abiotic stress response in existing horticultural plants. Many readers interested in plant abiotic stress biology are aware of the application of the latest findings to agricultural production, and this book will have a special appeal for those readers.

Features
► Provides a detailed description of abiotic stress biology in horticultural crops from the field to the molecular level ► Includes the relationship between abiotic stress and physiological disorders and quality improvement as a unique phenomenon in horticultural crops ► Discusses the latest findings mainly with regard to major fruit crops in which readers worldwide are interested

Contents
Part I Stress Physiology and Molecular Biology in Horticultural Plants.- Part II Effects of Abiotic Stress on Horticultural Crop Production and Storage.- Part III Stress Biology in Physiological Disorders of Horticultural Crops.- Part IV Genetic Engineering Technologies and Omics in Stress Tolerance

Fields of interest
Plant Physiology; Agriculture; Climate Change/ Climate Change Impacts

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. IV, 262 p. 43 illus., 19 illus. in color. Hardcover
► ***€ (D) 149,79 | € (A) 153,99 | sFr 186,50**
► **€ 139,99 | £126.00**
ISBN 978-4-431-55250-5

T. K. Lim, Canberra, ACT, Australia

Edible Medicinal And Non Medicinal Plants

Volume 9 Modified Stems, roots, Bulbs

Volume 9 is part of a multicompendium Edible Medicinal and Non-Medicinal Plants, on plants with edible modified stems, roots and bulbs from Acanthaceae to Zygophyllaceae (tabular) and 32 selected species in Alismataceae, Amaryllidaceae, Apiaceae, Araceae, Araliaceae, Asparagaceae, Asteraceae, Basellaceae, Brassicaceae and Campanulaceae in detail. This work is of significant interest to medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, botanists, agriculturists, conservationists, and general public. Topics covered include: taxonomy; common/ vernacular names; origin/ distribution; agroecology; edible plant parts/uses; botany; nutritive/medicinal properties, nonedible uses and selected references.

Features
► 150 coloured illustrations in this volume ► Referenced up-to-date-information on nutritive and medicinal properties ► Common and vernacular names to help in plant identification ► Medical and scientific glossaries

Contents
Introduction.- Alismataceae.- Amaryllidaceae.- Apiaceae.- Araceae.- Araliaceae.- Asparagaceae.- Asteraceae.- Basellaceae.- Brassicaceae.- Campanulaceae.- Medical Glossary.- Scientific Glossary

Fields of interest
Plant Sciences; Agriculture; Biomedicine general

Target groups
Graduate

Product category
Monograph

Due November 2014

2015. Approx. 900 p. 40 illus. Hardcover
► ***€ (D) 213,99 | € (A) 219,99 | sFr 266,50**
► **€ 199,99 | £180.00**
ISBN 978-94-017-9510-4

C. F. Llatas, Universidad Politécnica de Valencia Instituto ITACA, Valencia, Spain; **J. M. García-Gómez,** Universidad Politecnica de Valencia Instituto ITACA, Valencia, Spain (Eds)

Data Mining in Clinical Medicine

Features
► Includes cutting-edge methods and protocols ► Provides step-by-step detail essential for reproducible results ► Contains key notes and implementation advice from the experts

Contents
Actigraphy Pattern Analysis For Outpatient Monitoring.- Definition of Loss Functions for Learning from Imbalanced Data to Minimize Evaluation Metrics.- Audit Method Suited for DSS in Clinical Environment.- Incremental Logistic Regression for Customizing Automatic Diagnostic Models.- Using Process Mining for Automatic Support of clinical Pathways Design.- Analyzing Complex Patients' Temporal Histories: New Frontiers in Temporal Data Mining.- The Snow System – A Decentralized Medical Data Processing System.- Data Mining for Pulsing the Emotion on the Web.- Introduction on Health Recommender Systems.- Cloud Computing for Context-Aware Enhanced m-Health Services.- Analysis of Speech-based Measures for Detecting and Monitoring Alzheimer's Disease.- Applying Data Mining for the Analysis of Breast Cancer Data .- Mining Data When Technology Is Applied To Support Patients and Professional On The Control Of Chronic Diseases: The Experience Of The METABO Platform For Diabetes Management.- Data Analysis In Cardiac Arrhythmias.- Knowledge-Based Personal Health System to Empower Outpatients of Diabetes Mellitus by means of P4 Medicine.- Serious Games For Elderly Continuous Monitoring.

Field of interest
Bioinformatics

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XV, 240 p. 91 illus., 80 illus. in color. (Methods in Molecular Biology, Volume 1246) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-1-4939-1984-0

B. Lugtenberg, Leiden University Sylvius Laboratory, Leiden, The Netherlands (Ed)

Principles of Plant-Microbe Interactions

Microbes for Sustainable Agriculture

Contents

1. Introduction to Plant-Microbe Interactions.- Part I. Introductory Chapters.- 2. The Importance of Microbiology in Sustainable Agriculture.- 3. Life of Microbes in the Rhizosphere.- 4. Life of Microbes on Aerial Plant Parts.- 5. Life of Microbes Inside the Plant.- 6. Microbial Cell Surfaces and Secretion Systems.- 7. Microbial Biofilms and Quorum Sensing.- 8. Bacterial Volatiles as Airborne Signals for Plants and Bacteria.- Part II. Phytopathogens and Pest Insects.- 9. Phytopathogenic Bacteria.- 10. Plant Pathogenic Fungi and Oomycetes.- 11. Phytopathogenic Nematodes.- 12. Herbivorous Insects - a Threat for Crop Production.- 13. Phytopathogenic Viruses.- 14. Induced Disease Resistance.- 15. Apologies to the Planet – Can we Restore the Damage?.- 16. Will the Public ever Accept Genetically Engineered Plants?.- Part III. Control of Plant Diseases and Pests using Beneficial Microbes.- 17. Microbial Control of Phytopathogenic Nematodes.- 18. Microbial Control of Root-Pathogenic Fungi and Oomycetes.- 19. Control of Insect Pests by Entomopathogenic Nematodes.- 20. Bacillus thuringiensis-based Products for Insect Pest Control.- 21. Post Harvest Control.- Part IV. Plant Growth Promotion by Microbes.- 22. The Nitrogen Cycle.- 23. Biological Nitrogen Fixation.- 24. Phosphate Mobilisation by Soil Microorganisms.- 25. Arbuscular Mycorrhizas: the Lives of Beneficial Fungi and their Plant Host.- 26. Plant Hormones Produced by Microbes.- 27. Stress Control and ACC Deaminase.- 28. Plant-Microbe Interactions and Water Management in Arid and Saline Soils. [...]

Fields of interest
Plant Ecology; Microbiology; Plant Physiology

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. I, 443 p. 200 illus., 100 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-3-319-08574-6

H. Numata, Kyoto University, Sakyo-ku, Japan;
B. Helm, University of Glasgow, Glasgow, UK (Eds)

Annual, Lunar, and Tidal Clocks

Patterns and Mechanisms of Nature's Enigmatic Rhythms

There is more to biological rhythms than circadian clocks. This book aims at promoting the exciting potential of a deeper understanding of circannual, circatidal, and circalunar clocks. It highlights new developments, summarizes existing knowledge, and integrates different perspectives with the tools and ideas of diverse fields of current biology. For predominantly pragmatic reasons, research in recent decades was mostly concerned with circadian clocks. Clocks on other timescales, however, have been largely neglected and therefore still appear "enigmatic". Thanks to the rapid development of methods in molecular biology as well as in ecology, we are now able to re-approach these clocks. Laboratories around the world are showing fresh interest and substantial progress is being made in many independent projects. The book's two sections address the moon-derived circatidal, circasemilunar, and lunar cycles on the one hand (10 chapters), and the sun-derived circannual cycles on the other (6 chapters).

Features
► Provides a state-of-the-art assessment of non-circadian rhythms ► Presents the work of key authors in the field ► Considers the three highly topical rhythmic scales jointly for the first time

Contents
Dedication.- Foreword.- Preface.- Part I. Tidal, Semilunar, and Lunar Rhythms.- Part II. Circannual Rhythms.- Glossary

Fields of interest
Animal Ecology; Fish & Wildlife Biology & Management; Behavioural Sciences

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 374 p. 101 illus., 26 illus. in color. Hardcover
► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**
► **€ 149,99 | £135.00**
ISBN 978-4-431-55260-4

B. P. Orner, King's College London, London, UK (Ed)

Protein Cages

Methods and Protocols

This volume emphasizes new techniques to help understand protein cages and to apply them to a variety of technologies, highlighting the expertise of researchers based on three continents. Protein cages are currently inspiring diverse scientific disciplines and are therefore at the crossroads of extremely widely-scoped research, which is reflected in the detailed chapters of Protein Cages: Methods and Protocols.

Features
► Includes cutting-edge methods and protocols to explore protein cages ► Provides step-by-step detail essential for reproducible results ► Contains key notes and implementation advice from the experts

Contents
Encapsulation of Nanoparticles in Virus Protein Shells.- Use of Protein Cages as a Template for Confined Synthesis of Inorganic and Organic Nanoparticles.- Ferritin Encapsulation and Templated Synthesis of Inorganic Nanoparticles.- Determining the Relaxivity Values of Protein Cage-Templated Nanoparticles Using Magnetic Resonance Imaging.- Computationally Assisted Engineering of Protein Cages.- Recombinant Expression and Purification of "Virus-Like" Bacterial Encapsulin Protein Cages.- Production of Bacterial Microcompartments.- Detection of Protein Cage Assembly With Bis-Arsenic Fluorescent Probes.- Determining the Role of Metal Binding in Protein Cage Assembly.- Differential Scanning Calorimetry to Quantify the Stability of Protein Cages.- Material Properties of Viral Nanocages Explored by Atomic Force Microscopy.- Computational Mechanics of Viral Capsids.

Fields of interest
Protein Science; Biomaterials

Target groups
Professional/practitioner

Product category
Contributed volume

Due November 2014

2015. XII, 168 p. 60 illus., 48 illus. in color. (Methods in Molecular Biology, Volume 1252) Hardcover
► ***€ (D) 101,64 | € (A) 104,49 | sFr 126,50**
► **€ 94,99 | £85.50**
ISBN 978-1-4939-2130-0

G. K. Pandey, M. Sharma, A. Pandey, Delhi University South Campus, New Delhi, India; **T. Shanmugam,** Myongji University Division of Bioscience and, Kyunggi-do, Korea, Republic of (South Korea)

GTPases

Versatile Regulators of Signal Transduction in Plants

G proteins are the key regulators for a wide range of cellular processes in animals and plants. In comparison to animals and yeast, plants have a single Rho-GTPase subfamily called Rho-like GTPases (ROPs).

Features
► Because of the major thrust area of research and development in the field of signal transduction and crop improvement against multiple stresses, this book will be used by large number of academic as well as plant research community ► Can also be used by academic communities for teaching purpose beside its usage in research ► Written by renowned scholars in the field of Plant Sciences

Contents
Overview of G Proteins (GTP binding proteins) in Eukaryotes.- Overview of Small GTPase Signaling Proteins in Plants.- Identification and Classification of Rho GTPases in Plants.- Sequence, Structure and Domain Analysis of GTPases in Plants.- Expression of Small GTPases Under Stress and Developmental Conditions in Plants.- Emerging Roles of Rho GTPases in Plants.- Cellular Localization of Small GTPases.- Functional Genomic Perspective of Small GTPases.- Systemic Approaches to Resolve Spatio-Temporal Regulation of GTPase Signaling.- Key Questions and Future Prospects.

Fields of interest
Plant Genetics & Genomics; Agriculture; Plant Pathology

Target groups
Professional/practitioner

Product category
Brief

V. S. Saakov, A. I. Krivchenko, E. V. Rozengart, Russian Academy of Science, Saint Petersburg, Russia; **I. G. Danilova,** Institute of Medical Primatology, Sochi (Adler), Russia

Derivative Spectrophotometry and PAM-Fluorescence in Comparative Biochemistry

This book presents various examples of how advanced fluorescence and spectroscopic analytical methods can be used in combination with computer data processing to address different biochemical questions.

Features
► Introduces new concepts for the use of derivative spectrophotometry and PAM-fluorescence ► Discusses the topic in an interdisciplinary light, bridging the gap between physics, biochemistry, cell biology and genetics ► Provides a critical literature survey and new perspectives to the topic

Contents
Introduction. Development of the methodological base, disputes, conclusions.- Successes of the pulse amplitude modulated fluorescence application.- Methodological approaches in our experimental work.- Application of Derivative Spectrophotometry in Comparative Biochemical Studies.- The Range of DHSO Application in Experiments with Pigments of Plants and Animals.- Conclusion.

Fields of interest
Computer Appl. in Life Sciences; Biophysics and Biological Physics; Biochemistry, general

Target groups
Research

Product category
Monograph

M. Saleem, The University of Kentucky, Lexington, KY, USA; **M. B. Traw, Z. H. Pervaiz,** The University of Pittsburgh, Pittsburgh, PA, USA

Ecological Diversity of the Microbiome in the Context of Ecology Theory and Climate Change

This book reviews the mechanisms, patterns, and processes that regulate prokaryotic diversity through different habitats in the context of evolutionary and ecological hypotheses, principles, and theories. Despite the tremendous role of prokaryotic diversity in the function of the global ecosystem, it remains understudied in comparison to the rest of biological diversity.

Features
► Describes the mechanisms and patterns of prokaryotic diversity ► Addresses how climate change will impact prokaryotes, their habitats, and their diversity ► Takes a unique ecological and evolutionary perspective

Contents
Chapter 1: Microbiome ecosystem ecology: unseen majority in an anthropogenic ecosystem.- Chapter 2: Theories, mechanisms and patterns of microbiome species coexistence in an era of climate change.- Chapter 3: Eco-evolutionary processes regulating microbiome community assembly in a changing global ecosystem.- Chapter 4: Loss of microbiome ecological niches and diversity by global change and trophic downgrading.- Chapter 5: Microbiome mediated multitrophic interactions in an age of microbial extinction.- Chapter 6: Global microbiome for agroecology, industry and human well-being: opportunities and challenges in climate change.

Fields of interest
Microbial Ecology; Microbiology; Theoretical Ecology/Statistics

Target groups
Research

Product category
Brief

Due November 2014

2015. X, 96 p. 18 illus. in color. (SpringerBriefs in Plant Science) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11610-5

Due January 2015

2015. Approx. 560 p. 300 illus., 5 illus. in color. Hardcover
► **approx. *€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **approx. € 169,99 | £153.00**
ISBN 978-3-319-11595-5

Due February 2015

2014. X, 229 p. 40 illus., 31 illus. in color. (SpringerBriefs in Ecology) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11664-8

V. Singh, Central University of Himachal Pradesh, Dharamshala, India; **P. K. Dhar,** Shiv Nadar University, Gautam Budh Nagar, India (Eds)

Systems and Synthetic Biology

Contents

Introduction to Systems Biology.- Why Systems Biology Can Promote a New Way of Thinking.- Modelling Methodologies for Systems Biology.- In silico Identification of Eukaryotic Promoters.- Hill Equation in Modeling Transcriptional Regulation.- Molecular Modeling.- Complex Networks and Systems Biology.- Systems Biology of Infectious Diseases.- Systems Pharmacology and Pharmacogenomics for Drug Discovery and Development.- Switching Mechanism in the p53 Regulatory Network.- Systems Biology of Micro RNA.- A Brief Introduction to Synthetic Biology.- DNA Structure and Promoter Engineering.- Synchronous Sequential Computations with Biomolecular Reactions.- Designing Zinc Finger Proteins for Applications in Synthetic Biology.- Synthetic Biology for the Development of Biodrugs & Designer Crops and the Emerging Governance Issues.- Recent Advancement of Emerging Tools in Synthetic Biology for the Designing and Characterization of Genetic Circuits.- Metabolic Engineering of Microorganisms for Biosynthesis of Antibiotics.- DNA Origami: What, How and Where.- Making Synthetic Proteins from Noncoding DNA.- Engineering Biological Systems: A Brief Overview.

Fields of interest

Systems Biology; Biomedical Engineering; Biological Networks, Systems Biology

Target groups

Graduate

Product category

Contributed volume

Due November 2014

2015. Approx. 310 p. 114 illus., 75 illus. in color. Hardcover

► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**

► **€ 149,99 | £135.00**

ISBN 978-94-017-9513-5

S. M. Tiquia-Arashiro, University of Michigan, Dearborn, MI, USA

Thermophilic Carboxydotrophs and their Applications in Biotechnology

The book describes the products produced by carboxydotrophic bacteria and their biotechnological applications. Carbon monoxide (CO) is a widespread pollutant and a hazard to man because of its extremely toxic nature. It is a major component of some industrial gas mixtures and may be derived from coal. The carboxydotrophic bacteria obtain energy and carbon from the oxidation of CO. These organisms may be used to produce new metabolites, and the oxidases from them may be used to produce fuel cells and biosensors for CO.

Features

► Provides in-depth technical information on the biotechnological aspects of carboxydotrophic extremophiles ► Presents extensive illustrations, data, and up-to-date references ► A rare and informative book on extremophilic carboxydotrophs, a current hot topic

Contents

Introduction.- Microbial CO Metabolism.- CO-oxidizing Microorganisms.- Biotechnological Applications of Thermophilic Carboxydotrophs.- Conclusions.

Fields of interest

Microbiology; Applied Microbiology; Energy, general

Target groups

Research

Product category

Brief

Due November 2014

2014. Approx. 100 p. (SpringerBriefs in Microbiology / Extremophilic Bacteria) Softcover

► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**

► **approx. € 49,99 | £44.99**

ISBN 978-3-319-11872-7

M. C. Vestergaard, Japan Advanced Institute of Science and Technology, Ishikawa, Japan; **K. Kerman,** University of Toronto Scarborough, Toronto, ON, Canada; **I.-M. Hsing,** The Hong Kong University of Science and Technology, Kowloon, Hong Kong SAR; **E. Tamiya,** Osaka University, Osaka, Japan (Eds)

Nanobiosensors and Nanobioanalyses

Contents

Preface.- Part I Introduction to Nanobiosensors and Nanobioanalyses.- 1 Nanobiosensors and Nanobioanalyses: A Review (Mun'delanji C. Vestergaard and Eiichi Tamiya).- Part II Nanobiosensing Architectures.- 2 Vertically Aligned Nanowire Arrays Based Sensors and its Catalytic Applications (Kafil M. Razeeb, Mamun Jamal, Maksudul Hasan, and Alan Mathewson).- 3 Device Architecture and Biosensing Applications for Attractive One- and Two-Dimensional Nanostructures (Chun-Da Liao, Tien-Chun Tsai, Yi-Ying Lu, and Yit-Tsong Chen).- 4 Nanoimprinted Plasmonic Biosensors and Biochips (Keiichiro Yamanaka and Masato Saito).- 5 Nanoparticle Biosensing With Interferometric Reflectance Imaging (Derin Sevenler, Neşe Lortlar Ünlü, and M Selim Ünlü).- Part III Nanomaterial Functionalization and Nanobioelectronics.- 6 Nanomaterial-based Dual Detection Platforms: Optics Meets Electrochemistry (Nan Li and Kagan Kerman).- 7 Nanocarbon Film Based Electrochemical Detectors and Biosensors (Osamu Niwa and Dai Kato).- 8 Hybrid Metallic Nanoparticles: Enhanced Bioanalysis and Biosensing via Carbon Nanotubes, Graphene, and Organic Conjugation (Michael A. Daniele, Maria Pedrero, Stephanie Burrs, Prachee Chaturvedi, Wan Wardatul Amani Wan Salim, Filiz Kuralay, Susana Campuzano-Ruiz, Eric McLamore, and Jonathan C. Claussen). [...]

Fields of interest

Biochemistry, general; Biotechnology; Biomedical Engineering

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. VI, 295 p. 146 illus., 91 illus. in color. Hardcover

► ***€ (D) 160,49 | € (A) 164,99 | sFr 200,00**

► **€ 149,99 | £135.00**

ISBN 978-4-431-55189-8

C.-K. Wen, Shanghai Inst. for Biological Sciences Chinese Academy of Sciences, Shanghai, China (Ed)

Ethylene in Plants

This book focuses on recent advances in our understanding of the signal transduction pathway of ethylene, its interaction with other hormones and its roles in biological processes. It discusses at which point plants could have acquired ethylene signaling from an evolutionary perspective.

Features
► Systematically summarizing the current research development in plant ethylene signaling ► Thoroughly discussing the interaction between ethylene signaling and other plant signaling ► Introducing practical methodology in plant ethylene signaling studies ► Written by experts in the field

Contents
Ethylene Biosynthesis and Regulation in Plants.- Isolation of Components Involved in Ethylene Signaling.- Ethylene Receptors-Biochemical Events.- The Role of Protein-Protein Interactions in Signaling by the Ethylene Receptor.- Regulatory Components of Ethylene Signal Transduction.- Ethylene Signaling: from the Endoplasmic Reticulum to the Nucleus.- Ethylene as a Plant Hormone-An Evolutionary Perspective.- Interactions of Ethylene and Other Signals.- Integration of Ethylene and Gibberellin Signaling.- Integration of Ethylene and Auxin Signaling and the Developmental Consequences of Their Crosstalk.- Ethylene and Plant Immunity.- Research Tools: Biochemical and Biophysical Techniques for Studying Ethylene Signaling.- Research Tool: Ethylene Preparation: Treatment with Ethylene and Its Replacements.- Research Tools: Ethylene Detection

Fields of interest
Plant Biochemistry; Plant Physiology; Biological Techniques

Target groups
Research

Product category
Monograph

Due January 2015

2015. Approx. 350 p. 51 illus., 15 illus. in color. Hardcover
► approx. *€ (D) 160,49 | € (A) 164,99 | sFr 200,00
► approx. € 149,99 | £135.00
ISBN 978-94-017-9483-1

D. L. Wheeler, University of Wisconsin, Madison, WI, USA; **Y. Yarden,** Weizmann Institute of Science, Rehovot, Israel (Eds)

Receptor Tyrosine Kinases: Structure, Functions and Role in Human Disease

Receptor Tyrosine Kinase: Structure, Functions and Role in Human Disease, for the first time, systematically covers the shared structural and functional features of the RTK family. Receptor Tyrosine Kinases (RTKs) play critical roles in embryogenesis, normal physiology and several diseases. And over the last decade they have become the Number 1 targets of cancer drugs.

Features
► Leading scientists and researcher providing cutting-edge data ► A comprehensive resource that summarizes what we know about receptor tyrosine kinases ► An incredible resource to researchers and clinicians and would be utilized by a large audience including, professors, postdocs, graduate students, and scientists in both academic science and industry

Contents
The Eukaryotic Protein Kinase Superfamily.- Evolution of Receptor Tyrosine Kinases.- RTKs in Invertebrates: Lessons in Signal Transduction.- Cell Signaling by Receptor Tyrosine Kinases.- Nuclear Signaling of Receptor Tyrosine Kinases.- Computational and Modeling Aspects of RTK Networks.- Endocytosis of Receptor Tyrosine Kinases.- Structural Features of the Ligand-Binding Extracellular Domain.- Structural Features of the Kinase Domain.- Targeting RTKs in Cancer.- Mouse Models of Receptor Tyrosine Kinases.

Fields of interest
Cell Biology; Receptors; Cancer Research

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. XIV, 458 p. 53 illus. in color. Hardcover
► *€ (D) 160,49 | € (A) 164,99 | sFr 200,00
► € 149,99 | £135.00
ISBN 978-1-4939-2052-5

T. Yamamoto, Hiroshima University, Higashi-Hiroshima, Japan (Ed)

Targeted Genome Editing Using Site-Specific Nucleases

ZFNs, TALENs, and the CRISPR/Cas9 System

Contents
Preface.- Part 1 Basics of Genome Editing.- 1 Genome Editing Using Zinc-Finger Nucleases (ZFNs) and Transcription Activator-Like Effector Nucleases (TALENs) (Hiroshi Ochiai and Takashi Yamamoto)-. 2 CRISPR/Cas9: The Leading Edge of Genome Editing Technology (Tetsushi Sakuma and Takashi Yamamoto)-. Part 2 Genome Editing in Cultured Cells and Various Organisms.- 3 Editing in Cultured Human Cells: From Cell Lines to iPS Cells (Hongmei Lisa Li and Akitsu Hotta)-. 4 Genome Editing in Nematode (Takuma Sugi)-. 5 Highly Efficient Targeted Gene Disruption in the Silkworm, Bombyx mori, Using Genome Editing Tools (Takaaki Daimon)-. 6 Genome Editing in Sea Urchin (Naoaki Sakamoto)-. 7 Genome Editing in Ascidians (Nicholas Treen and Yasunori Sasakura)-. 8 Genome Editing in Zebrafish and Medaka (Atsuo Kawahara, Taijiro Yabe, Satoshi Ansai, Shinji Takada, and Masato Kinoshita)-. 9 Genome Editing Using Site-Specific Nucleases in Amphibians (Ken-ichi T. Suzuki and Toshinori Hayashi)-. 10 Genome Editing in Mice Using CRISPR/Cas (Samantha AM Young, Mark Baker, and Masahito Ikawa)-. 11 Genome Editing in Mice Using TALENs (Tomomi Aida)-. 12 Engineered Nucleases Lead to Genome Editing Revolution in Rats (Kazuto Yoshimi, Takehito Kaneko, Birger Voigt, and Tomoji Mashimo)-. 13 Genome Editing in Higher Plants (Yuriko Osakabe and Keishi Osakabe).

Fields of interest
Transgenics; Developmental Biology; Cell Biology

Target groups
Research

Product category
Monograph

Due October 2014

2014. X, 226 p. 45 illus., 34 illus. in color. Hardcover
► *€ (D) 149,79 | € (A) 153,99 | sFr 186,50
► € 139,99 | £126.00
ISBN 978-4-431-55226-0

G. Aust, TU Dresden, Dresden, Germany

Vertical Cooperative Advertising in Supply Chain Management

A Game-Theoretic Analysis

In this book methods from Operations Research and Game Theory are used to determine companies' profit-maximizing strategies related to pricing and (cooperative) advertising. It considers different supply chain structures as well as various distributions of power, making it possible to analyze both inter-echelon and intra-echelon dependencies between the companies' decisions.

Features
► Considers different supply chain structures and distributions of power in order to suit the characteristics of various industries ► Offers decision support for managers in manufacturing and retailing firms through numerical and graphical analyses of the derived solutions ► Presents an extensive literature review to familiarize the reader with the current state of mathematical modeling of vertical cooperative marketing

Contents
Introduction.- Fundamentals.- Cooperative advertising models in supply chain management.- Vertical cooperative advertising and pricing decisions in a manufacturer-retailer supply chain.- Game theoretic analysis of pricing and vertical cooperative advertising of a retailer-duopoly with a common manufacturer.- A manufacturer-retailer supply chain with fuzzy customer demand.- Resumé.

Fields of interest
Production/Logistics/Supply Chain Management; Game Theory/Mathematical Methods; Operations Research, Management Science

Target groups
Research

Product category
Monograph

Due November 2014

2015. Approx. 165 p. (Contributions to Management Science) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11625-9

R. Ayadi, Centre for European Policy Studies, Brussels, Belgium; **M. Dabrowski,** Center for Social and Economic Research (CASE), Warsaw, Poland; **L. De Wulf,** CASE - Center for Social and Economic Research, Warsaw, Poland (Eds)

Economic and Social Development of the Southern and Eastern Mediterranean Countries

Contents
Economic Development, Trade and Investment: Determinants of Growth in SEMC.- Euro-Mediterranean Trade: Shallow vs. Deep Integration.- The EU-Turkey Customs Union: A Model for Future Euro-Med Integration.- Manufactured Exports and FDI.- Private Sector Development.- Sectoral Studies: Transport Infrastructure.- Agriculture.- Tourism in the Mediterranean.- The Textile Industry.- Information and Communication Infrastructure.- Financial Development: Determinants of Financial Development Across the Mediterranean.- Dynamics of Bank Efficiency in the EU and SEMC: Is There a Convergence?- Convergence of Banking Regulation.- Financial Development, Bank Efficiency, and Economic Growth Across the Mediterranean.- Financial Sector Development Scenarios.- Social Development: Education Systems and Their Impact on the Labor Market.- Measuring Returns to Education and Human Capital.- Determinants and Measures of Inequality.- Female Labor Force Participation and Economic Development.- Summary: The Economic and Social Policy Reform Agenda in the SEMC: Towards a Sustainable Transition.

Fields of interest
Development Economics; International Economics; Financial Economics

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. IV, 352 p. 30 illus., 24 illus. in color. Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11121-6

E. Ballestero, Polytechnic University of Valencia, Alcoy, Spain; **B. Pérez-Gladish,** University of Oviedo, Oviedo, Spain; **A. Garcia-Bernabeu,** Polytechnic University of Valencia, Alcoy, Spain (Eds)

Socially Responsible Investment

A Multi-Criteria Decision Making Approach

This book integrates socially responsible investment into modern portfolio theory from a multi-criteria perspective. Socially responsible investment is a "new deal" championed by the institutional investment and bank sectors, agents that influence mutual funds and other collective investment schemes and which fear that financial strategies without ethical constraints can harm sustainable growth and prosperity. The book shows how to combine financial criteria such as profitability and risk with non-financial criteria such as the protection of the ecosystem, responsible consumption of energy, and healthcare campaigns.

Features
► First book to approach socially responsible investment as a multicriteria decision making problem ► Presents a normative, rather than a descriptive approach ► Emphasizes the use of goal programming and compromise programming models to select ethical financial portfolios and to evaluate fund performance

Contents
Part I: Critical Issues in Ethical Investment.- Part II: Goal Programming and SRI Funds.- Part III: Compromise Programming and SRI Funds.- Part IV: Other Decision-Making Support Methods.

Fields of interest
Operation Research/Decision Theory; Operations Research, Management Science; Finance/Investment/Banking

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 330 p. (International Series in Operations Research & Management Science, Volume 219) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11835-2

H. Brinkmeyer, Heinrich-Heine-Universität Düsseldorf, Düsseldorf, Germany

Drivers of Bank Lending

New Evidence from the Crisis

After the recent financial crisis has hooked the banking system to its very foundations, Hartmut Brinkmeyer contributes to the question of how bank characteristics influence bank loan supply during crisis periods by developing a well-founded theoretical framework. The econometrical design deploys a number of remarkably innovative ideas such as the implementation of a bank-specific, self-chosen target capital ratio or a very convincing approach to the disentanglement of loan supply and demand. The results of this study deliver a profound insight into the lending behavior of European banks and explicitly urge academic and practical discussion.

Feature
► Publication in the field of economic sciences

Contents
Monetary policy transmission.- A new view: Implications of financial innovation for the bank lending channel.- Bank lending against the background of the recent crisis.- Empirical analysis: Determinants of bank lending during normal and crisis periods.

Fields of interest
Economic Policy; Finance/Investment/Banking; Public Finance & Economics

Target groups
Research

Product category
Monograph

Due September 2014

2015. XVII, 230 p. 28 illus. (Schriften zum europäischen Management) Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07174-5

S. Busetti, Politecnico di Milano, Milan, Italy

Governing Metropolitan Transport

Institutional Solutions for Policy Problems

This book investigates the links between institutions and public policies with specific reference to transport. It opens by examining the main arguments for government intervention and regulation of local transport, explaining the case for integrated transport authorities on the basis of literature on transport economics and metropolitan governance. The potential impacts of institutional change on the policy efficiency of institutions are then examined. Key traps for institutional designers are identified, the baseline hypothesis being that all of these traps must be avoided when reshaping institutional settings to achieve desired policy outcomes and solutions.

Features
► Investigates the link between institutions and public policies with specific reference to transport ► Identifies key traps for institutional designers ► Presents two in-depth case studies on the governance of London and Barcelona ► Useful to both advanced scholars on institutions and practitioners

Contents
1 Introduction.- 2 The policy case for integrated transport authorities.- 3 Institutions, institutional change and policy outcomes.- 4 The new governance of Transport in London.- 5 The metropolitan transport authority of Barcelona.- 6 Conclusions: Lessons for institutional designers.

Fields of interest
Regional/Spatial Science; Urban Geography / Urbanism (inc. megacities, cities, towns); Public Administration

Target groups
Research

Product category
Brief

Due January 2015

2014. Approx. 100 p. (SpringerBriefs in Applied Sciences and Technology / PoliMI SpringerBriefs) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-10658-8

E. G. Carayannis, School of Business, George Washington University, Washington, DC, USA;
E. T. Samara, Y. Bakouros, University of Western Macedonia, Kozani, Greece

Innovation and Entrepreneurship

Theory, Policy and Practice

This book aims to meet the needs of education and training in modern techniques of innovation and entrepreneurship, and focuses on the detailed presentation of successful business practices. As today's global economic landscape is changing rapidly, the ability of businesses to introduce new products and services to the market faster than their competitors is perhaps their most distinct competitive advantage. This becomes obvious by the significant market share that the most innovative companies gain while increasing profitability. Extensive research in this field has demonstrated that companies that are constantly innovating normally double their profits compared to others.

Features
► Reviews theories and techniques of innovation, entrepreneurship and technology management ► Demonstrates correlation between innovation and economic competitiveness and sustainable growth ► Includes case studies and examples from private and public sectors

Contents
1 Introduction to Technological Innovation.- 2 Introduction to Innovation Management.- 3 Innovation and Competitiveness Case Studies.- 4 Innovation as Management Process.- 5 Innovation Systems.- 6 Introduction to Technological Entrepreneurship.- 7 Entrepreneurship and Innovation Practices.

Fields of interest
Innovation/Technology Management; Entrepreneurship; R & D/Technology Policy

Target groups
Research

Product category
Monograph

Due October 2014

2015. XII, 200 p. 30 illus., 20 illus. in color. (Innovation, Technology, and Knowledge Management) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11241-1

F. Causevic, University of Sarajevo, Sarajevo, Bosnia-Herzegovina

The Global Crisis of 2008 and Keynes's General Theory

This book describes the international context and some of the factors that have weakened the influence of Keynesian economic thought. It illustrates economic responses offered by the new Keynesian school and the alternative perspective on the global crisis presented by the monetary circuit theory, with a special emphasis on Minsky's financial instability hypothesis. The authors present a commentary on Keynes's General Theory with an emphasis on his theory of the scarcity of capital, his analysis of the change in the structure of costs, and straightforward recommendation for a policy marked by very low interest, which he felt was needed to maintain full employment. Additionally, the book discusses major changes in the cost structure of globally active companies, resulting from the extremely intense international capital flows over the last three decades. The authors point out the need to redefine the open economy macroeconomics model, switching it from a world consisting of two major developed open economies to one consisting of two major open economies, one of which is developed and the other is developing.

Contents
Economic Theory and Economic Policy Since the Seventies: Keynesians versus New Classical Economists.- The General Theory of Employment, Interest and Money: An Overview with Commentary.- Impact of Financial Globalization on the Scope of Economic Theory and Policy.

Fields of interest
Methodology and the History of Economic Thought; Economic Policy; Economic Theory

Target groups
Research

Product category
Brief

Due October 2014

2015. XII, 99 p. 17 illus. (SpringerBriefs in Economics) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11450-7

P. Engel, The Boston Consulting Group GmbH, Frankfurt, Germany

Outside Director Compensation in German Public Family Firms

An Empirical Analysis

Pascal Engel investigates how outside directors are incentivized in family firms that are publicly listed but still partly owned by members of the founding family. Owning families significantly influence their firms' corporate conduct with their own set of goals, sometimes in conflict with economically driven goals of the capital markets. The author analyzes how family shareholders exert their influence on compensation schemes of outside directors who have the difficult task to protect the interests of family and non-family shareholders. This book provides insights on current approaches of defining a compensation scheme that attracts qualified outside directors but concurrently reflects respective shareholders' preferences.

Feature
► Study in the field of economic sciences

Contents
Research on Family Firms.- Outside Directors' Pay Level.- Voluntary Disclosure of Outside Directors' Compensation.- Outside Directors' Pay Mix.

Fields of interest
Management/Business for Professionals; Business Strategy/Leadership; Corporate Governance

Target groups
Research

Product category
Monograph

Due October 2014

2015. Approx. 200 p. 11 illus. (Familienunternehmen und KMU) Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07315-2

T. Foscht, Karl-Franzens-Universität Graz, Graz, Austria; **D. Morschett,** Universität Fribourg, Fribourg, Switzerland; **T. Rudolph,** Universität St. Gallen, St. Gallen, Switzerland; **P. Schnedlitz,** Wirtschaftsuniversität Wien, Wien, Austria; **H. Schramm-Klein,** Universität Siegen, Siegen, Germany; **B. Swoboda,** Universität Trier, Trier, Germany (Eds)

European Retail Research

2013, Volume 27, Issue II

The aim of EUROPEAN RETAIL RESEARCH is to publish interesting manuscripts of high quality and innovativeness with a focus on retail researchers, retail lecturers, retail students and retail executives. As it has always been, retail executives are part of the target group and the knowledge transfer between retail research and retail management remains a part of the publication's concept. EUROPEAN RETAIL RESEARCH welcomes manuscripts on original theoretical or conceptual contributions as well as empirical research – based either on large-scale empirical data or on the case-study method. Following the state of the art in retail research, articles on any major issues that concern the general field of retailing and distribution are welcome.

Contents
Customer Behavioral Intentions for Online Grocery Shopping.- Reciprocity of a Retailer's Corporate Image and Store Image.- Retailing in Romania.- Retailing in Slovenia.- Retailing in South Africa.

Fields of interest
Business/Management Science, general; Sales/Distribution/Call Center/Customer Service; Economics/Management Science, general

Target groups
Research

Product category
Monograph

Due September 2014

2015. VII, 152 p. 17 illus. (European Retail Research) Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07037-3

A. Ghofar, Brawijaya University, Malang, Indonesia; **S. M. Islam,** Victoria University, Melbourne, VIC, Australia

Corporate Governance and Contingency Theory

A Structural Equation Modeling Approach and Accounting Risk Implications

This book analyzes the determinants and effectiveness of corporate governance in an integrated model drawing on contingency theory and employing structural equation modeling (SEM). Business competition as an environmental factor and strategy as an organizational factor are important determinants of corporate governance, while organizational performance and earnings quality are two dimensions of its effectiveness. This book focuses on the relationship between corporate governance and earnings management, and shows that corporate governance is effective in improving earnings quality and reducing accounting and governance risks.

Features
► Presents new insights on corporate governance using structural equation modeling (SEM) ► Adds a unique approach to corporate governance research methods ► In-depth analysis of corporate governance and contingency theory

Contents
Introduction.- Literature Review.- Conceptual Framework and Hypotheses Development.- Research Method.- Results.- Discussion and Implications.- Summary, Limitations and Conclusions.

Fields of interest
Accounting/Auditing; Organization/Planning; Non-Profit Enterprises/Corporate Social Responsibility

Target groups
Research

Product category
Monograph

Due October 2014

2015. X, 256 p. 17 illus., 14 illus. in color. (Contributions to Management Science) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-10995-4

P. Gross, Hannover, Germany

Growing Brands Through Sponsorship

An Empirical Investigation of Brand Image Transfer in a Sponsorship Alliance

Philip Gross addresses a new opportunity for growing brands that may reside within a sponsorship alliance. Typically, brands vie for image transfer from an event or other property when entering a sponsorship engagement. Yet this practice leaves a valuable part of a sponsorship alliance unexploited. Specifically, the author infers from theories of social and cognitive psychology to propose and test a research model that accounts for a sponsor to also gain from brand attitude and personality traits innately tied to a co-sponsor of the same event. The results provide evidence for direct image transfer between two sponsor brands. Hence, pairing with a co-sponsor might fortify or dilute a sponsor brand's image depending on the expediency of the image conveyed by that ally.

Feature
► Study in the field of economic science

Contents
Brands and Identity-Based Brand Management.- Sponsorship Alliance.- Brand Image Transfer: Attitude and Personality.

Fields of interest
Marketing; Market Research; Management/Business for Professionals

Target groups
Research

Product category
Monograph

Due October 2014

2015. Approx. 380 p. 26 illus. (Strategie, Marketing und Informationsmanagement) Softcover
► ***€ (D) 69,99 | € (A) 71,95 | sFr 87,50**
► **€ 65,41 | £58.99**
ISBN 978-3-658-07249-0

H. Hagedorn, Universität Münster, Münster, Germany

A model of Austrian economics

After the most recent financial crisis it has become clear that there exists a crisis also in economics as a science. The prevailing paradigms have failed to anticipate and to understand the financial crisis. New approaches are therefore needed. Of particular interest should be approaches that combine insights from those parts of economics that are largely neglected by the mainstream. Hendrik Hagedorn presents a model that synthesizes elements of Austrian, post-Keynesian, and evolutionary economics. Thus, an economic paradigm is developed that challenges neoclassical economics as a whole.

Feature
► Study in the field of economics

Contents
An agent-based economy within an accounting framework.- Reaction algorithms for households, firms, and banks.- A contribution to interest-rate theory.- A comparison of Austrian and neoclassical economics.

Fields of interest
Economic Theory; Economics general

Target groups
Research

Product category
Monograph

Due September 2014

2015. VIII, 104 p. 26 illus., 10 illus. in color. Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07076-2

S. Hartard, University of Applied Sciences Trier Environmental Campus Birkenfeld, Hoppstädten-Weiersbach, Germany; **W. Liebert,** University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria (Eds)

Competition and Conflicts on Resource Use

This book reflects on the causes of resource-based conflicts and competition, and presents solutions for safely and sustainably providing resources with a focus on material flow management. The contributions from different disciplines highlight issues such as safe access to resources, conflicts over water and energy supplies, waste of strategic mineral resources, sustainable resource consumption, and renewable energy technologies.

Features
► Gives background information about resource conflicts and solutions for safe resources supply in the future ► Presents interdisciplinary research, including peace researchers, nuclear energy professionals and environmental scientists ► Provides a comprehensive scientific information pool on many facets of resource conflicts

Contents
Preamble.- Part I: Role of Resources for International Conflict Constellations.- Part II: Conflicts on Fossil and Nuclear Energy Supply.- Part III: Perspectives of Strategic Material Resources Management.- Part IV: Sustainable Solutions for Resource Consumption.- Part V: Water Conflict Prevention by Water Resource Management.- Part VI: Resource Aspects in Renewable Energy Technologies.

Fields of interest
Environmental Economics; Environmental Science and Engineering; Environmental Management

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 315 p. 64 illus., 39 illus. in color. (Natural Resource Management and Policy, Volume 46)
Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10953-4

W. E. Hefley, University of Pittsburgh, Pittsburgh, PA, USA; **Y. Wang,** Washington and Jefferson College, Washington, PA, USA (Eds)

Economics of Unconventional Shale Gas Development

Case Studies and Impacts

This book examines the economics and related impacts of unconventional shale gas development. While focusing on the Marcellus and Utica Shales in the Mid-Atlantic region, additional insights from other regions are included to provide a broader view of these issues.

Features
► Provides the first account of the impacts of unconventional shale gas development in the U.S. from an economic perspective ► Presents a comprehensive picture using a wide range of research from multiple levels of analysis, from single wells to entire states ► Contains findings in economics and policy from leaders of research and outreach in the field of shale gas research

Contents
1. Introduction.- 2. Direct Economic Impact of the Value Chain of a Marcellus Shale Gas Well.- 3. Economic Impact Analysis on Washington County, PA.- 4. Economic Impact Analysis on Northeast PA Counties.- 5. Marcellus and the State of Pennsylvania.- 6. Marcellus and the State of West Virginia.- 7. Barnett, Eagle Ford, and the State of Texas.- 8. Communities under the Boom of Shale Gas Development.- 9. Origins and Consequences of State-level Variation in Shale Regulation: The Cases of Pennsylvania and New York.- 10. Balance between Economics and Environment: a Shale Gas Perspective.

Fields of interest
Environmental Economics; Energy Economics; Economic Policy

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 300 p. 30 illus., 28 illus. in color. (Natural Resource Management and Policy, Volume 45)
Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11498-9

A. Herzberg, Heinrich-Heine-Universität, Düsseldorf, Germany

Sustainability of External Imbalances

A Critical Appraisal

Since the mid-1990s, sustainability of large and persistent current account positions have been attracting much attention from policy makers and economists alike. Alongside global imbalances, sustainability of imbalances within the euro area, which started widening shortly after the introduction of the euro, raised much concern. While there exists a large body of theoretical and empirical literature on sustainability of external imbalances, a systematic survey has been lacking so far. Angélique Herzberg fills this gap by examining a broad range of established sustainability measures concerning their applicability to the various global and intra-euro imbalances of the recent past. Furthermore, the author examines the existence of feedback effects from an economy´s net international investment position to its trade balance.

Feature
► Publication in the field of economic sciences

Contents
Empirical Studies on the Validity of the Intertemporal Budget Constraint.- Dynamic Benchmarks of External Sustainability.

Fields of interest
Economic Policy; Public Finance & Economics; Financial Economics

Target groups
Research

Product category
Monograph

Due September 2014

2015. XI, 329 p. 5 illus. Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07090-8

S. Hintze, Hamburg, Germany

Value Chain Marketing

A Marketing Strategy to Overcome Immediate Customer Innovation Resistance

Value Chain Marketing (VCM) is a promising strategy to overcome immediate customers' innovation resistance. By pursuing VCM, material suppliers enlarge their target group beyond their immediate customers and address their downstream customers as well. Treading on relatively unexplored grounds, this book explores the relevance of VCM and comprehends its process; identifies the critical factors for suppliers' marketing success, and compares the performance of VCM trials, using a multi-method design linking case study research and computational modeling.

Features
► Uses a multi-method approach combining case study research with computational modeling ► Offers an in-depth discussion and elaboration as well as empirical explication and validation of the concept of Value Chain Marketing ► Provides real-world examples on how Value Chain Marketing can be implemented

Contents
Focus and Scope: Introduction.- Conceptual and Methodological Foundation: Dealing with Value Chains.- Marketing Supplier Innovations.- Research Design and Methodology.- Qualitative Studies: Pilot Study.- Case Study.- Computational Modeling: Agent-Based Simulation Study.- Integrating Findings: Discussion of Findings.- Conclusions.- Appendix: Details - Pilot Study.- Details - Case Study.- Details - Agent-Based Simulation Study.

Fields of interest
Marketing; Innovation/Technology Management; Simulation and Modeling

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 250 p. (Contributions to Management Science) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11375-3

S. O. Idowu, London Metropolitan University London Metropolitan Business School, London, UK; **C. S. Frederiksen,** University of Copenhagen, Copenhagen, Denmark; **A. Y. Mermod,** Marmara University, Beykoz Istanbul, Turkey; **M. E. Nielsen,** University of Copenhagen, Copenhagen, Denmark (Eds)

Corporate Social Responsibility and Governance

Theory and Practice

This book deals with the role of international standards for corporate governance in the context of corporate social responsibility. Based on the fundamentals of moral theory, the book examines governance and CSR in general, addressing questions such as: Is "good governance" not affected by moral concerns? How do the principles and practices of CSR standards adhere to or conflict with insights from business ethics and moral theory? To what extent do the standards and governance models provide normative guidance? Do the standards and governance guidelines provide an adequate means of benchmarking and auditing? Are these standards a help or a hindrance to stakeholder engagement and transparency?

Features
► Presents CSR in the light of international governance practices ► Provides guidance for CSR policies of companies ► Includes perspectives from moral theory

Contents
CSR and Corporate Governance.- Corporate Social Responsibility and Ethical Values.- Reporting Corporate Social Responsibility.-Instrumental Corporate Social Responsibility.

Fields of interest
Non-Profit Enterprises/Corporate Social Responsibility; Ethics; Organization/Planning

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 382 p. 6 illus., 4 illus. in color. (CSR, Sustainability, Ethics & Governance) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-10908-4

S. O. Idowu, London Metropolitan University, London, UK; **N. Capaldi,** Loyola University, New Orleans, LA, USA; **M. Fifka,** University Erlangen-Nürnberg, Erlangen, Germany; **L. Zu,** International Labour Organization, Turin, Italy; **R. Schmidpeter,** Cologne Business School (CBS), Köln, Germany (Eds)

Dictionary of Corporate Social Responsibility

CSR, Sustainability, Ethics and Governance

This book is a concise and authoritative reference work and dictionary in the field of corporate social responsibility, sustainability, business ethics and corporate governance. It provides reliable definitions to more than 600 terms and concepts for researchers and professionals alike. By its definitions the dictionary helps users to understand the meanings of commonly used terms in CSR, and the roles and functions of CSR-related international organizations. Furthermore, it helps to identify keynotes on international guidelines, codes and principles relevant to CSR. The role of CSR in the business world has developed from a fig leaf marketing front into an important and indispensable aspect of corporate behavior over the past years.

Features
► Provides a comprehensive reference on all terms and concepts in corporate social responsibility ► Contains contributions from a global set of authors ► Includes definitions for more than 500 entries

Contents
Forewords.- Preface.- Introduction.- Contributors.- Keywords.

Fields of interest
Non-Profit Enterprises/Corporate Social Responsibility; Ethics; Business Strategy/Leadership

Target groups
Research

Product category
Dictionary

Due November 2014

2015. X, 505 p. 9 illus. (CSR, Sustainability, Ethics & Governance) Hardcover
► ***€ (D) 181,89 | € (A) 186,99 | sFr 226,50**
► **€ 169,99 | £153.00**
ISBN 978-3-319-10535-2

M. Jacobs, Dresden, Germany

Cultural Impact on Lean Six Sigma and Corporate Success

Causal Analyses Considering the Effects of National Culture and Leadership

To achieve a better understanding of the influence of National Culture, Corporate Culture and Leadership Style on Lean Six Sigma implementation and Corporate Success a quantitative empirical web-based survey with Lean Six Sigma professionals involved in the social professional network LinkedIn was carried out by Miriam Jacobs. The outcome of this survey suggests, that certain constellations of these five factors are more successful than others. Companies with an almost equal balance across different Leadership Styles and types of Corporate Culture achieve the best results, while companies equipped with a Rational and Hierarchical Corporate Culture in the absence of transformational, participative or supportive leadership are likely to fail.

Feature
► Study in the field of economic sciences

Contents
Theoretical Foundations and Concepts for Lean Six Sigma, Corporate Culture, National Culture, Leadership Style and Corporate Success.- Development of an Overall Hypothesized Model.- Introduction and Implementation of Structural Equation Modeling with Partial Least Squares (PLS) to Test the Hypothesized Model.- Practical Implications and Recommendations.

Fields of interest
Business Strategy/Leadership; Management/Business for Professionals; Organization/Planning

Target groups
Research

Product category
Monograph

G. Knieps, University of Freiburg, Freiburg, Germany

Network Economics

Principles - Strategies - Competition Policy

This textbook on network economics provides essential microeconomic instruments for the analysis of network sectors like telecommunications, transport or energy. Network-specific characteristics emerge both on the cost side and benefit side, requiring network providers to develop innovative entrepreneurial competition strategies for costing, pricing, and investment. From a competition policy perspective, a number of interesting questions arise: In which parts of networks is competition functional? In contrast, where is an abuse of market power to be expected? What is the division of labor between cartel authorities and regulatory agencies? The book develops an analytical framework for all network industries which allows readers to study entrepreneurial strategies as well as regulation and competition policies for network industries.

Features
► A modern approach to network economics providing an analytical framework for all relevant network industries ► Relevant entrepreneurial strategies for costing and pricing in network industries ► Well-founded concepts for regulation and competition policy in network industries

Contents
Introduction to Network Economics.- Decision-Relevant Costs.- Congestion Externalities.- Strategies for Price Differentiation.- Auctions.- Compatibility Standards in Networks.- Universal Service.- Market Power Regulation.- The Positive Theory of Regulation.

Fields of interest
Microeconomics; Transportation; Industrial Organization

Target groups
Upper undergraduate

Product category
Graduate/Advanced undergraduate textbook

R. La Rovere, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil; **L. Ozório,** IBMEC, Rio de Janeiro, Brazil; **L. Melo,** Federal University of Rio de Janeiro, Rio de Janeiro, Brazil (Eds)

Entrepreneurship in BRICS

Policy and Research to Support Entrepreneurs

Contents
Entrepreneurial Environments: The Brazilian Entrepreneurial Ecosystem of Startups: An Analysis of Entrepreneurship Determinants in Brazil and the Perceptions Around the Brazilian Regulatory Framework.- Financing Innovation in Brazil: Recent Achievements and Future Challenges.- Entrepreneurship and Venture Creation in Brazil: Key Policy Issues.- Entrepreneurship and New Venture Creation: Key Elements of the Entrepreneurial Ecosystem Facilitating the Growth of ICT Entrepreneurs in Russia.- Entrepreneurship and New Venture Creation in China: Focusing on ICT sectors.- Perception of Entrepreneurial Ecosystem in India: Influence of Industrial versus Personal Context of Entrepreneurship.- Entrepreneurship and New Venture Creation in Italy: Key Issues and Policy.- Social Entrepreneurship: Business Model Innovation in Emerging Economies: Leveraging Institutional Voids.- Entrepreneurship in Rocinha: A Non Goal-Driven Activity.- Innovation Environments: A Literature Review of E-entrepreneurship in Emerging Economies.- A Study on Entrepreneurial Support Environment in Educational (Technical) Institutions.- Resource Endowment from Parent Organization to Academic Spin-Offs: The Case of the COPPE/UFRJ.- Development, Entrepreneurial Activity and Industrial Extension.

Fields of interest
Entrepreneurship; Innovation/Technology Management; Economic Policy

Target groups
Research

Product category
Contributed volume

Due January 2015

2015. Approx. 335 p. 70 illus. (Forum Marketing) Softcover
► approx. *€ (D) 74,89 | € (A) 76,99 | sFr 93,50
► approx. € 69,99 | £62.99
ISBN 978-3-658-07339-8

Due November 2014

2015. XI, 171 p. 23 illus. (Springer Texts in Business and Economics) Hardcover
► *€ (D) 74,89 | € (A) 76,99 | sFr 93,50
► € 69,99 | £62.99
ISBN 978-3-319-11694-5

Due December 2014

2015. 200 p. 40 illus. Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11411-8

P. S. Leeflang, J. E. Wieringa, T. Bijmolt, University of Groningen, Groningen, The Netherlands;
K. H. Pauwels, Özyeğin University, Istanbul, Turkey

Modeling Markets

Analyzing Marketing Phenomena and Improving Marketing Decision Making

This book is about how models can be developed to represent demand and supply on markets, where the emphasis is on demand models. Its primary focus is on models that can be used by managers to support marketing decisions. The market environment is changing rapidly and constantly. Prior to the introduction of scanner equipment in retail outlets, ACNielsen, the major supplier of information on brand performance, claimed that its business was to provide the score but not to explain or predict it.

Features
► Comprehensive coverage of data analysis methodology and techniques in quantitative marketing ► Applies the most current topics, examples, research findings, and innovations in the field ► Designed as a research and professional resource and for course use; based on previous volumes with strong adoptions

Contents
Building models for markets.- Model specification.- Data.- Estimation and testing.- Validation and testing.- Re-estimation: introduction to more advanced estimation methods.- Examples of models for aggregate demand.- Individual demand models.- Examples of database marketing models.- Use: implementation issues.- Appendix A: Matrix algebra.

Fields of interest
Marketing; Management/Business for Professionals; Operation Research/Decision Theory

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 430 p. 37 illus., 1 illus. in color. (International Series in Quantitative Marketing) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-1-4939-2085-3

G. Lin, W. Wei, Peking University, Shenzhen, China;
W. Zhu, Tsinghua University, Beijing, China

The Principle of Profit Models

This book mainly focuses on defining profit models, on how many main kinds of profit models there are, how profit models can change a company, and how to tailor a profit model to the needs of a certain company. In this context, profit models are classified as fixed-income, remaining-profit and profit-sharing, admission, toll, parking, fuel and sharing fees, profit sources, customer pricing, auction, combined pricing, etc. The logic behind all these profit models will be analyzed in detail and numerous micro-cases will be introduced. All of the micro-cases discussed are the best profit model practices used by outstanding enterprises, mainly from China and the USA (including HomeAway, Priceline, Tencent, Sina, Google, the Voice of China, CSPN and so on). These models will be complemented by a wealth of figures and additional tools to help readers better understand the principle of profit models. As such, the book not only explains "why" entrepreneurs preferred to apply a specific kind of profit model and not others, but also answers "how" they derived that model.

Features
► Combines academic with practitioner's perspective ► Introduces best profit models practices of the most outstanding enterprises mainly from China and USA ► Answers "why" entrepreneurs applied this kind of profit model other than others, and "how" they came out with the profit model as well

Contents
Profit sources (Stakeholders). -Fixed income.- Remaining profit.- Profit sharing.- Customer pricing.- Auction.- Combined pricing.

Fields of interest
Economic Theory; Entrepreneurship; Management/Business for Professionals

Target groups
Research

Product category
Monograph

Due February 2015

2015. Approx. 200 p. 50 illus. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-662-44713-0

Z. Liu, X. Li, Nanjing University, Nanjing, China (Eds)

Transition of the Yangtze River Delta

From Global Manufacturing Center to Global Innovation Center

Contents
Ch1 Development Strategy, Restructuring and Upgrading, Innovation-driven Development and Transformation of the Development Mode of Service Industry (Zhibiao Liu).- Ch2 The Distribution of Space Economy: From "Massive Economic" to Modern Industrial Clusters (Shouhua Wei,Xinlei Lv, Haiyan Cong).- Ch3 The Dynamism of Transformation of the Yangtze River Delta from Global Manufacturing Center into Global Innovation Center (Shouhua Wei, Xiaojing Liu, Mu Cheng.- Ch4 Industry Selection: Evolution from the Undertaking of Manufacturing Abroad to the Innovation and Entrepreneurship of Emerging Industries in the Yangtze River Delta (Jianghuai Zheng, Yongchun Huang).- Ch5 The transformation from factor input-driven growth model to innovation-driven growth model (Yang Ge, Ling Guan).- Ch6 Analysis of the transformation of production factors in the economic transition in the Yangtze River Delta (Xiaochun Li, Juan Xia).- Ch7 Local Government Competition and Industrial Structure Convergence (Fuxiang Wu).- Ch8 Industry Coordination in the Integration of the Yangtze River Delta: Analysis of Endogenous Relationship between Manufacturing and Service Industry (Jing Jiang).- Ch9 Reverse Outsourcing of Research & Development: A Growth Path of Chinese Firms—Based on the Case Study of Automobile Self-Brand in the Yangtze River Delta Region (Danlu Liu and Zhonggang Yue). [...]

Fields of interest
Regional/Spatial Science; Development Economics; Economic Growth

Target groups
Research

Product category
Monograph

Due November 2014

2015. X, 210 p. 64 illus., 56 illus. in color. (New Frontiers in Regional Science: Asian Perspectives, Volume 5) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-4-431-55177-5

D. Lozovanu, Academy of Sciences of Moldova Institute of Mathematics & Informatics, Chisinau, Moldova; **S. Pickl,** Univ der Bundeswehr München Inst Theoretische Infromatik, Neubiberg, Germany

Optimization of Stochastic Discrete Systems and Control on Complex Networks

Computational Networks

This book presents the latest findings on stochastic dynamic programming models and on solving optimal control problems in networks. It includes the authors' new findings on determining the optimal solution of discrete optimal control problems in networks and on solving game variants of Markov decision problems in the context of computational networks.

Features
► Systematizes the most important existing methods of stochastic dynamic optimization ► Describes new algorithms for solving different classes of stochastic dynamic programming problems ► Presents methods to solve practical decision problems from diverse areas such as ecology, economics, engineering and communication systems

Contents
Discrete stochastic processes, numerical methods for Markov chains and polynomial time algorithms.- Stochastic optimal control problems and Markov decision processes with infinite time horizon.- A game-theoretical approach to Markov decision processes, stochastic positional games and multicriteria control models.- Dynamic programming algorithms for finite horizon control problems and Markov decision processes.

Fields of interest
Operation Research/Decision Theory; Optimization; Operations Research, Management Science

Target groups
Research

Product category
Monograph

G. V. Naidu, School of International Studies, Jawaharlal Nehru University, New Delhi, India; **M. Chen,** National Chung Hsing University, Taichung, Taiwan; **R. Narayanan,** National Chengchi University, Taipei, Taiwan (Eds)

India and China in the Emerging Dynamics of East Asia

Features
► Presents a comprehensive study on both China–India relations and their concurrent rise and impact on East Asia ► Generates considerable interest in understanding the dimension of East Asia that has been relatively neglected ► Includes writings by some of the top experts on the subject from India, China, Japan and Taiwan covering a wide canvass of issues, including economic development models, their military strategies, and the boundary dispute

Contents
Chapter 1. Introduction.- Chapter 2. India, China and East Asia.- Chapter 3. India and China in the Emerging Asian Economic Architecture.- Chapter 4. Taiwan-India Relations under the Shadow of A Rising China.- Chapter 5. The Indian Growth Model: A Chinese Perspective.- Chapter 6. The Past, the Problems, and the Prospect of the 'Chindia' Alliance.- Chapter 7. Fence Sitting, Prolonged Talks: The India–China Boundary Dispute.- Chapter 8. India and China: Sifting the 'generic' from the 'specific'. Chapter 9. China and India: Comparisons of Naval Strategies and Future Competition.- Chapter 10. Pure Commercial or More than Strategic? An Observation of China's Establishment of Overseas Naval Bases.- Chapter 11. Japanese Perspective on the Rise of India and China and their Impact on East Asia.

Fields of interest
International Economics; International Relations; Emerging Markets/Globalization

Target groups
Research

Product category
Contributed volume

M. Peris-Ortiz, Universitat Politècnica de València, Valencia, Spain; **J. Alvarez-Garcia,** University of Extremadura Faculty of Business Studies and Tourism, Cáceres, Spain (Eds)

Health and Wellness Tourism

Emergence of a New Market Segment

Features
► Establishes a practical and theoretical framework in the area of health and wellness tourism ► Analyses and compares the laws and practices applied in different countries ► Includes cases and examples of wellness treatments that utilize water (i.e., thermalism, thalassotherapy, spas, etc.)

Contents
A comparative study of thermal legislation in the Galicia–North Portugal Euroregion.- Health and Wellness Tourism – A Strategic Plan for Tourism and Thermalism valorization of São Pedro do Sul.- Networks in the Health and Welfare Sector: a study beyond borders – Portugal/Spain.- Chaves-Verín: regional development strengthened by spa-linked research and professional education.- Promotion and Marketing: Marketing Strategies, Italy, Regional Development.- Quality Management in Spanish Thalassotherapy Centers.- Motivations for Implementing a System of Quality Management in Spanish Thalassotherapy Centers.- Barriers to Implementing Quality Management in Spanish Thalassotherapy Centers.- Social Program Hydrotherapy IMSERSO in Horizon 2020.- Diversity and Interconnection: Spas, health and wellness tourism.- Innovation in Thermalism: An example in Beira Interior region of Portugal.

Fields of interest
Tourism Management; Emerging Markets/Globalization; Regional/Spatial Science

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 415 p. (Advances in Computational Management Science, Volume 12) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11832-1

Due December 2014

2015. Approx. 180 p. Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-81-322-2137-1

Due November 2014

2015. Approx. 100 p. 34 illus. in color. Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11489-7

S. Ruckdäschel, Universität Passau, Passau, Germany

Leadership of Networks and Performance

A Qualitative and Quantitative Analysis

In contrast to hierarchical leadership within intra-organizational contexts, leaders of inter-organizational networks have to lead across organizational boundaries without hierarchical fiat or directive authority. The central research question of Susanne Ruckdäschel is how leadership behavior of network managers can influence network performance. Hereby, relational leadership in the form of empowering leadership is regarded as decisive criterion. Her study focuses on the interplay between network leaders and network companies. The perspectives of both the network managers and the network members are illuminated. Therefore, first, a mixed methods study is conducted from the perspective of the network managers and second, a quantitative analysis based on a structural equation model focuses on the perspective of the network members.

Feature
► Publication in the field of economic sciences

Contents
Leadership of regional networks.- Empowering leadership.- Network performance.- Cultural and structural difference.

Fields of interest
Business Strategy/Leadership; Public Administration; Innovation/Technology Management

Target groups
Research

Product category
Monograph

Available

2015. XVII, 241 p. 14 illus. (Markt- und Unternehmensentwicklung Markets and Organisations) Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07032-8

P. Shome, Tax Administration Reform Commission, New Delhi, India; **P. Sharma,** Indian Council for Research on International Economic Relations, New Delhi, India (Eds)

Emerging Economies

Food and Energy Security, and Technology and Innovation

Contents
Chapter 1. Introduction and Overview.- Part I: Agriculture and Food Security.- Chapter 2. Recent Development Patterns and Challenges of Brazilian Agriculture.- Chapter 3. The Role of Agriculture in China's Development: Performance, Determinants of Successes and Future Challenges.- Chapter 4. Agriculture, Food Security and Livelihoods in India: Performance, Issues and Challenges.- Chapter 5. Dimensions of Food and Livelihood Security of Agricultural Trade: The Case of Malaysia.- Chapter 6. Agriculture, Food Security and Livelihoods of Mexican Population under Market-Oriented Reforms.- Part II: Energy.- Chapter 7. Brazilian Perspectives on Development of Clean Energy.- Chapter 8. Energy Development and Efficiency in China.- Chapter 9. Indian Perspective on Clean Energy and Energy Efficiency.- Chapter 10. Reluctant Embrace: South Africa and Renewable Energy.- Part III: Technology and Innovation.- Chapter 11. Evolution and Dynamics of the Brazilian National System of Innovation.- Chapter 12. Has Business Innovation Capability Increased after Indigenous Innovation Policy.- Chapter 13. Technological and Institutional Change: India's Development Trajectory in an Innovation Systems Framework.- Chapter 14. The Role of the Diaspora in Supporting Innovation Systems: The Experience of India, Malaysia and Taiwan.- Chapter 15. Unveiling Innovation Dynamics and Development Processes: A Mexican perspective. [...]

Fields of interest
Development Economics; Food Science; Agricultural Economics

Target groups
Professional/practitioner

Product category
Professional book

Due December 2014

2015. Approx. 600 p. 99 illus. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-81-322-2100-5

A. Unger, Friedrichsdorf, Germany

The Use of Risk Budgets in Portfolio Optimization

Risk budgeting models set risk diversification as objective in portfolio allocation and are mainly promoted from the asset management industry. Albina Unger examines the portfolios based on different risk measures in several aspects from the academic perspective (Utility, Performance, Risk, Different Market Phases, Robustness, and Factor Exposures) to investigate the use of these models for asset allocation. Beside the risk budgeting models, alternatives of risk-based investment styles are also presented and examined. The results show that equalizing the risk across the assets does not prevent losses, especially in crisis periods and the performance can mainly be explained by exposures to known asset pricing factors. Thus, the advantages of these approaches compared to known minimum risk portfolios are doubtful.

Feature
► Publication in the field of economic sciences

Contents
Theoretical Background.- Alternative Approaches in Portfolio Management.- Minimum Risk Portfolios.- Risk Budgeting Portfolios.- Robustness.- Factor Models.

Fields of interest
Finance/Investment/Banking; Financial Economics; Management/Business for Professionals

Target groups
Research

Product category
Monograph

Due September 2014

2015. XXIV, 424 p. 28 illus. Softcover
► ***€ (D) 69,99 | € (A) 71,95 | sFr 87,50**
► **€ 65,41 | £58.99**
ISBN 978-3-658-07258-2

S. Wang, Wuhan University, Beijing, China

Chinese Strategic Decision-making on CSR

This research study attempts to provide a comprehensive CSR literature review, analyze corporate social responsibility (CSR) issues from the strategic decision-making (SDM) perspective, and investigate the process of managers' CSR- related SDM in China. In particular, it utilizes content analysis to examine selected CSR articles from published studies, in order to evaluate the trends in CSR theory development as well as to identify the variables, constructs, and relationships within CSR theory. The review indicates that CSR should be involved in organizational strategies. Therefore, this study reviews the relevant theoretical and empirical literature in the SDM area. Firstly, it summarizes the broader context of strategic decisions and points out factors in the external environment and organizational characteristics that influence the SDM process of managers.

Features
► Provides a systematic review of Corporate Social Responsibility (CSR), especially identifying milestones of CSR literature and providing better understanding of the evolution of CSR research ► Discloses how top leaders make their CSR-related strategic decision-making from psychological perspective ► Explains the relationship between different stakeholders' claims with top leaders' CSR decision-making

Contents
Introduction.- Literature review of corporate social responsibility.- CSR-related SDM process and hypothesis development.- Methodology and research design.- Data analysis and hypothesis testing.- Discussion of findings.- Conclusion.

Fields of interest
Business Strategy/Leadership; Marketing; Management/Business for Professionals

Target groups
Research

Product category
Monograph

P. Wruuck, Frankfurt, Germany

The Political Economy of Anti-dumping Protection

A Strategic Analysis

This book deals with anti-dumping measures (AD) and investigates two questions: First, what country characteristics affect AD use and notably, do domestic political institutions have an effect? Second, (how) is the decision to impose a new AD measure affected by anticipation of trading partners' potential retaliation? This book applies a strategic perspective to AD to address these questions, presenting a game-theoretic model together with an empirical test. The approach sheds light on the dynamics of interaction between trading partners and allows to capture selection processes which underpin the trade restrictions that can actually be observed.

Contents
Chapter 1. Introduction.- Chapter 2. Institutions and Trade Policy – A Review.- Chapter 3. Winning Coalition Size and the Use of Anti-dumping.- Chapter 4. A Strategic Analysis of Anti-dumping.- Chapter 5. Concluding Remarks.

Fields of interest
International Economics; Political Economy; International Relations

Target groups
Research

Product category
Monograph

Y. Zhu, Int'l Graduate School of Business University of South Australia, North Terrace, Adelaide, SA, Australia; **H. Lan,** School Environment & Natural Resources Renmin University of China, Beijing, China; **D. A. Ness,** Barbara Hardy Institute University of South Australia, Mawson Lakes, SA, Australia; **K. Xing,** School of Engineering University of South Australia, Mawson Lakes, SA, Australia; **K. Schneider,** University of Vienna, Vienna, Austria; **S.-H. Lee,** Nemopartners China Consulting Group, Beijing, China; **G. Jing,** Jiangsu Broadcasting Corporation, Nanjing, China

Transforming Rural Communities in China and Beyond

Community Entrepreneurship and Enterprises, Infrastructure Development and Investment Modes

Contents
Chapter 1 Introduction.- Chapter 2 Rural community development and the role of social entrepreneurs.- Chapter 3 Market-based financing mechanism and design of voluntary trading platform for China forest sinks.- Chapter 4 Carbon trade, forestry land rights and farmers' livelihood in rural community in China.- Chapter 5 Alternative energy development in China rural communities.- Chapter 6 Transforming rural communities by synergistic, integrated and inclusive planning of services and infrastructure.- Chapter 7 Key characteristics of rural ICT service innovation: a case analysis of ICT-enabled rural financial services in China.- Chapter 8 Towards An integrated model.

Fields of interest
Business Strategy/Leadership; Entrepreneurship; Environmental Economics

Target groups
Research

Product category
Monograph

Due October 2014

2015. XIV, 152 p. 13 illus., 4 illus. in color. (CSR, Sustainability, Ethics & Governance) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44996-7

Due February 2015

2014. Approx. 180 p. (Contributions to Economics) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11223-7

Due November 2014

2015. XIII, 200 p. 22 illus., 16 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11318-0

A. Freitag, Technische Universität München, Garching, Germany

Applying Business Capabilities in a Corporate Buyer M&A Process

As a first step towards applying Enterprise Architecture Management (EAM) in Mergers and Acquisitions (M&A), Andreas Freitag investigates the end-to-end applicability of business capabilities in the M&A process of a corporate buyer organization. Enterprises still struggle to manage M&A efficiently. A significant number of merger projects do not reach the expected goals or fail completely. Therefore, companies attempt to improve their M&A capability by establishing the required skills, organization, processes and methods. EAM is an approach for business and IT planning, promising to contribute to the success of business transformation challenges such as M&A. Business capability models are an essential element of a state of the art EAM approach. They are frequently used as a starting point to work collaboratively with business and IT stakeholders.

Feature
► Publication in the field of economic sciences

Contents
Motivation, Introduction and Overview.- Introduction to Mergers & Acquisitions.- State-of-the-Art of EA Management in the Context of M&A.- Towards a Theoretical Foundation for Business Capabilities.- Understanding the Corporate Buyer Scenario.- The Corporate Buyer M&A Process (CBMA Process).- Applying Business Capabilities in the CBMA Process.- Evaluation.- Summary.

Fields of interest
Business Information Systems; Organization/Planning; Business Strategy/Leadership

Target groups
Research

Product category
Ph.D. Thesis

Due September 2014

2015. XV, 270 p. 90 illus., 10 illus. in color. Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07281-0

F. P. García Márquez, University of Castilla-La Mancha, Ciudad Real, Spain; **B. Lev,** University of Drexel, Philadelphia, PA, USA (Eds)

Advanced Business Analytics

The book describes advanced business analytics and shows how to apply them to to many different professional areas of engineering and management. Each chapter of the book is contributed by a different author and covers a different area of business analytics.

Features
► Describes the interface of advanced business analytics and best practice ► Each chapter focuses on a specific area of business analytics such as retail, finance, marketing, supply chain and telecommunications ► Contains many case studies that show the reader how to apply the described approaches in their working environment

Contents
Decision Making Approach for Optimal Business Investments.- Integration of a Heuristic Method into an ERP Software.- Economic Viability Analytics for Wind Energy Maintenance Management.- Introduction to Multi-Attribute Decision Making in Business Analytics.- How Business Analytics Should Work.- Vulnerability Analysis of a Signal-Controlled Road Network for Equilibrium Flow.- Analytical Model Implementing Objectives in EVM for Advanced Project Control.- Use of Excellence Models as a Management Maturity Model (3M).- AHP and Intuitionistic Fuzzy Topsis Methodology for SCM Selection.- The Assessment and Selection of Hedge Funds.- Functional Data Analysis with an Application in the Capital Structure of California Hospitals.- A Software Application to Optimize the Visits of Sales/Marketing Agents to Their Customers in a Brewing Company.

Fields of interest
Business Information Systems; Innovation/Technology Management; Information Systems Applications (incl.Internet)

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 270 p. Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-11414-9

L. S. Iyer, University of North Carolina Greensboro, Greensboro, NC, USA; **D. J. Power,** University of Northern Iowa, Cedar Falls, IA, USA (Eds)

Reshaping Society through Analytics, Collaboration, and Decision Support

Role of Business Intelligence and Social Media

Contents
Introduction.- Big Data Panel at SIGDSS Pre-ICIS Conference 2013 A Swiss-Army Knife? The Profile of a Data Scientist.- Creating a Data-Driven Global Society.- Agile Supply Chain Decision Support System.- Hawkes Point Processes for Social Media Analytics.- Using Academic Analytics to Predict Dropout Risk in E-learning Courses.- Membership Reconfiguration in Knowledge Sharing Network: A Simulation Study.- On the Role of Ontologies in Information Extraction.- A Quantitative Approach to Identify Synergistic IT Portfolios.- Introduction to Research in Progress.- Toward Attentive In-Store Recommender Systems: Detecting Exploratory vs. Goal-Oriented Decisions.- Engaging with Online Croed: A Flow Theory Approach.- Modeling Dynamic Organizational Network Structure.- Introduction: Teaching Analytics, Decision Support, and Business Intelligence: Challenges and Trends.- Data Analysis of Retailer Orders to Improve Order Distribution.- An Online Graduate Certificate Credential Program at the University of Arkansas.- Business Intelligence at Bharti Airtel Ltd.

Fields of interest
Business Information Systems; Information Systems Applications (incl.Internet); Operation Research/Decision Theory

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. VI, 296 p. 50 illus., 35 illus. in color. (Annals of Information Systems, Volume 18) Softcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11574-0

D. Maximini, Leinfelden-Echterdingen, Germany

The Scrum Culture

Introducing Agile Methods in Organizations

This book is a guide for managers, Scrum Masters and agile coaches who are interested in agile organizational methods and who are planning to introduce Scrum at their company. Scrum is not only a product development framework but can also be used to structure activities for agile and lean organizational development. Divided into five major parts, in the first the book introduces and defines the Scrum Culture. It explains its relevance, highlights a number of painful points typical for first encounters with Scrum, and embeds it in an introduction to organizational change, fleshing it out with many real-life examples that help to apply the concepts to readers' own specific contexts. The second Part describes in detail the principles of introducing Scrum, while Part III embarks on the practical application of those principles, drawing on a wealth of experience gathered in many successful introduction projects.

Features
► Provides a comprehensive, yet to the point guide to introduce Scrum in an organization ► Emphasizes and explains the role of cultural aspects in organizational change ► Presents many real-life examples and a case study on the application of the Scrum concepts in practice

Contents
Part I: The Scrum Culture.- Part II: The Theory of Introducing Scrum.- Part III: The Practical Application of Kotter's Principles.- Part IV: Case Study.- Part V: Additional Information.

Fields of interest
Business Strategy/Leadership; Computing Milieux; Organization/Planning

Target groups
Professional/practitioner

Product category
Professional book

S. S. Nandram, Praan Solutions, Amsterdam, The Netherlands

Organizational Innovation by Integrating Simplification

Learning from Buurtzorg Nederland

This book presents the theory of integrating implification and it provides a profound evidence based study of Buurtzorg Nederland. The case itself, forming the building block of the theory, has received tremendous interest in the Netherlands and abroad. This is the first international book on Buurtzorg Nederland and the first one departing from a management multidisciplinary perspective. The book demonstrates theory building by using the Grounded Theory Methodology as a way to contribute to management theory. Integrating simplification gives room for context specific implementation of organizational innovation to different industries.

Features
► Explains a client-focus approach to be easily applied in different contexts ► Provides evidence-based theory and applicable model ► Provides a detailed description of the case to inspire a context specific application

Contents
Towards a New Way of Organizing.- Buurtzorg Nederland: Start-up Process and Organizational Design.- Theory of Integrating Simplification.- Attuning to Clients.- Subtle Craftsmanship in Communities.- Intrapreneurial Team Freedom.- Pragmatic Will with ICT.- Leading Higher Purpose.- Scientific Contribution of IST in the Domain of Organizational Innovation.- Implications and Discussion.- Reflections and Conclusion.

Fields of interest
Organization/Planning; Organizational Studies, Economic Sociology; Health Administration

Target groups
Professional/practitioner

Product category
Professional book

C. Rossignoli, University of Verona, Verona, Italy;
F. Ricciardi, Catholic University of Milan, Milan, Italy

Inter-Organizational Relationships

Towards a Dynamic Model for Understanding Business Network Performance

This book explores the premise that organizations are significantly influenced by their inter-organizational relationships; moreover, these relationships may generate important externalities, both positive and negative, impacting the environment at several levels. The advent of the Internet era, on the other hand, has resulted in disruptive changes in traditional inter-organizational networks, and some completely new inter-organizational settings are now arising.

Features
► Includes a comprehensive survey of the extant theories on business networks ► Provides a novel dynamic model, re-usable and adaptable to real-world situations, to enhance business network strategies and practices ► Links tools and theories on business networks rooted in IT/IS studies to those rooted in management studies

Contents
Introduction.- Extant theories explaining inter-organizational relationships.- The literature on Virtual Organizations, electronic Mediators and e-Marketplaces.- A Single Theory Is Not Enough: Understanding the Dynamism of Inter-Organizational Relationships.

Fields of interest
Business Information Systems; Organizational Studies, Economic Sociology; Organization/Planning

Target groups
Research

Product category
Monograph

Due January 2015

2015. Approx. 360 p. (Management for Professionals) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11826-0

Due November 2014

2015. 200 p. (Management for Professionals) Hardcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-3-319-11724-9

Due November 2014

2015. X, 130 p. 9 illus., 3 illus. in color. (Contributions to Management Science) Hardcover
► ***€ (D) 85,59 | € (A) 87,99 | sFr 106,50**
► **€ 79,99 | £72.00**
ISBN 978-3-319-11220-6

B. Aguilera-Barchet, Rey Juan Carlos University, Madrid, Spain

A History of Western Public Law

Between Nation and State

Contents

1. Introduction.- Part I: From the City State to the Roman Empire: 2. From the Origins to the Polis.- 3. The Roman Political Model: From Res Publica to Imperium.- 4. From Territorial Power to Spiritual Rule: Christianity's Political Dimension.- Part II: The Origins of the European "Nations": 5. From the Germanic Tribes to Kingdoms.- 6. Popes vs. Emperors: The Rise and Fall of Papal Power.- 7. From Public to Private Power: Europe in the Feudal Age.- Part III: The Origin of the "European States": 8. From Kings to Monarchs: The Resurgence of Public Power in Late Medieval Europe.- 9 The Apogee of Royal Power: Absolute Monarchy (The 16th and 17th Centuries).- 10. From the Conservative King to the Reformist Monarch: The Stage of Enlightened Absolutism (18th Century).- 11. From Absolute to Limited Monarchy: The British Origins of Parliamentary Government.- Part IV: The Rise of the Nation-State: 12. From Monarchy to Representative Government: The American "Revolution".- 13. From Absolute Monarchy to Democratic Absolutism: The French Revolution.- 14. The Return of the Monarchial Principle (I): The Origins of North American Presidentialism.- 15. The Return of the Monarchial Principal (II): The French State: From Imperial Bonapartism to Republican Presidentialism.- 16. The Golden Era of Liberalism and the Apogee of the Nation-State.- 17. The Triumph of the State over the Nation: From Totalitarianism to Interventionism.- Part V: The End of the Nation-State?: 18. The Crisis of the Nation-State in the Era of European Integration.

Fields of interest

Theories of Law, Philosophy of Law, Legal History; European Law; History

Target groups

Upper undergraduate

Product category

Graduate/Advanced undergraduate textbook

Due January 2015

2015. Approx. 800 p. Hardcover
► approx. *€ (D) 101,64 | € (A) 104,49 | sFr 126,50
► approx. € 94,99 | £85.50
ISBN 978-3-319-11802-4

B. Janusz-Pawletta, Kazakh-German University, Almaty, Kazakhstan

The Legal Status of the Caspian Sea

Current Challenges and Prospects for Future Development

Features

► Overview of existing legal framework on development of natural resources of the Caspian Sea ► Special emphasis on the legal requirement regarding the protection of the unique ecosystem of the Caspian Sea ► Legal assessment of the possible future resolution of the interstate dispute over the use of natural resources of the Caspian Sea

Contents

Introduction and course of the investigation.- Geography, politics and economy in the Caspian Sea.- Legal history and the present state of use of the Caspian resources.- Cooperation levels in Caspian states' practice in the 1990s.- Interrelations between territorial delimitations and the regime of the use of the Caspian Sea.- The regime for the use of non-living resources in the Caspian Sea.- The legal regime of the living resources of the Caspian Sea.- The legal regime of the pipelines in the Caspian Sea.- The legal regime of maritime shipping on the Caspian Sea.- Protection of the Marine Environment of the Caspian Sea.- Concluding remarks.

Fields of interest

Law of the Sea, Air and Outer Space; International Environmental Law; Energy Policy, Economics and Management

Target groups

Research

Product category

Monograph

Due October 2014

2015. X, 171 p. Hardcover
► *€ (D) 85,59 | € (A) 87,99 | sFr 106,50
► € 79,99 | £72.00
ISBN 978-3-662-44729-1

K. Mathis, University of Lucerne, Lucerne, Switzerland (Ed)

European Perspectives on Behavioural Law and Economics

Contents

Foreword; Sebastian Heselhaus.- Preface; Klaus Mathis.- Introduction; Klaus Mathis.- About the Authors.- Part I: Foundations.- 1 European and American Perspectives on Behavioral Law and Economics; Thomas Ulen.- 2 The Next Generation of Behavioural Law and Economics; Avishalom Tor.- 3 From Rational Choice to Behavioural Economics; Klaus Mathis and Ariel David Steffen.- Part II: Applications.- 4 Why Do We Need Responsive Regulation and Behavioural Research in EU Internal Market Law?; Kai Purnhagen.- 5 Can EU Consumer Law Benefit from Behavioural Insights?; Anne-Lise Sibony.- 6 Buttons, Boxes, Ticks, and Trust; Martin Engel and Johanna Stark.- 7 Loss Aversion, Omission Bias and the Civil Standard of Proof; Mark Schweizer.- 8 How Role and Framing Influence Litigants' Perception of Civil Procedure; Edgar Klinger and Günter Bierbrauer.- 9 Investment Suitability Requirements in the Light of Behavioural Findings; Rainer Baisch and Rolf H. Weber.- 10 Retail Investors and Disclosure Requirements; Geneviève Helleringer.- 11 Behavioural Antitrust; Andreas Heinemann.- 12 New York Times v. Sullivan in European Context; Mariusz J. Golecki.- Index.

Fields of interest

Theories of Law, Philosophy of Law, Legal History; Law and Economics; Law and Psychology

Target groups

Research

Product category

Contributed volume

Due January 2015

2014. Approx. 260 p. (Economic Analysis of Law in European Legal Scholarship, Volume 2) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11634-1

B. A. Reardon, International Institute on Peace Education, New York, NY, USA; **D. T. Snauwaert,** The University of Toledo, Toledo, OH, USA

Betty A. Reardon: Key Texts in Gender and Peace

Features
► Offers key texts by a leading author on sexism, militarism, and human security with a large international following ► Provides an introduction to Reardon's "Gender & Peace Work-Snauwaert: Organization & Rationale for Selections" in three phases: ► Phase 1: Awareness of Women & Peace Connections 1974-1982 ► Phase 2: Analysis of Interdependence of Militarism & Sexism 1983-1994 ► Phase 3: Assertion of Patriarchy as Fundamental to Peace & Peace Education 1995-2013

Contents
Women's Movements and Human Futures.- "Moving to the Future" and "Debating the Future".- A Gender Analysis of Militarism and Sexist Repression: A Suggested Research Agenda.- Introduction to the first edition, Sexism and the War System (1985) and Epilogue to second edition (1995).- Feminist Concepts of Peace and Security.- A Feminist Critique of An Agenda for Peace.- Gender and Peace: Toward a Gender Inclusive, Holistic Perspective.- Women and Human Security: A Feminist Framework and Critique of the Prevailing Patriarchal Security System.- A Statement on Military Violence against Women addressed to the 57th Session of the United Nations Commission on the Status of Women, March 4 -15th, 2013.- Epilogue - Toward a Strategy for Transcending Patriarchy: Envisioning the Possible.

Fields of interest
Human Rights; International Relations; Education (general)

Target groups
Research

Product category
Brief

Due November 2014

2015. XX, 125 p. 22 illus., 20 illus. in color. (SpringerBriefs on Pioneers in Science and Practice / Texts and Protocols, Volume 27) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11808-6

G. G. Sander, Hochschule für öffentliche Verwaltung und Finanzen Ludwigsburg, Ludwigsburg, Germany; **J. Garašić,** University of Zagreb, Zagreb, Croatia; **N. Bodiroga-Vukobrat,** University of Rijeka, Rijeka, Croatia (Eds)

Sovereign Insolvency

Possible Legal Solutions

The regulation of sovereign debts raises many complex economic and legal questions. The primary objective of this volume is to focus on the possible legal solutions for the challenges facing the insolvent states. Finding a way out of the sovereign debt crisis requires not only economic considerations, but it implies also a better understanding of the rage of different social and ethical aspects associated with this problem.

Fields of interest
European Law; Sources and Subjects of International Law, International Organizations; Public Finance & Economics

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 265 p. (Europeanization and Globalization, Volume 2) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-02173-7

G. G. Sander, Hochschule für öffentliche Verwaltung und Finanzen Ludwigsburg, Ludwigsburg, Germany; **V. Tomljenovic,** General Court, Luxembourg, Luxembourg; **N. Bodiroga-Vukobrat,** University of Rijeka, Rijeka, Croatia (Eds)

Transnational, European, and National Labour Relations

The future of labour relations and labour law, affected by globalisation and internationalisation processes is a matter which receives much attention, not only in the scientific legal community, but also wider public. For this reason, there is an increasing number of studies and research in this field, especially in the context of erosion of national prerogatives and decentralisation of cross-border economic activities. Neo-liberal globalisation, transnational corporations and the issue of labour and social standards have opened a variety of problems on global, European and national levels. The European Union endeavours in the recent years to deal with market challenges, posed particularly in the labour market, by positive, as well as negative harmonisation.

Fields of interest
European Law; Private International Law, International & Foreign Law, Comparative Law

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 250 p. (Europeanization and Globalization, Volume 3) Hardcover
► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **approx. € 99,99 | £90.00**
ISBN 978-3-319-02218-5

İ. G. Şen, Anadolu University, Eskisehir, Turkey

Sovereignty Referendums in International and Constitutional Law

This book focuses on sovereignty referendums, which have been used throughout different historical periods of democratization, decolonization, devolution, secession and state creation. Referendums on questions of sovereignty and self-determination have been a significant element of the international political and legal landscape since the French Revolution, and have been a central element in the resolution of territorial issues from the referendum in Avignon in 1791 until today. More recent examples include Quebec, East Timor, New Caledonia, Puerto Rico and South Sudan. The global aim of this book is to achieve a better empirical and legal understanding of sovereignty referendums and related problems in international and national law and politics.

Features
► A clear and complete mapping of the sovereignty referendums and related problems ► A manual for lawyers and political scientists working in the field ► Includes basic rules for a fair and legitimate referendum in the resolution of sovereignty conflicts

Contents
1. Introduction.- 2. Introduction to the Theory of Sovereignty Referendums.- 3. Sovereignty Referendums in the System of Politics.- 4. Sovereignty Referendums in the System of Law.- 5. Sovereignty Referendums in International Law.- 6. Sovereignty Referendums in Constitutional Law.- 7. Sovereignty Referendums: Common Legal Problems.- 8. Conclusion.

Fields of interest
Public International Law; Theories of Law, Philosophy of Law, Legal History; Political Theory

Target groups
Research

Product category
Monograph

R. H. Weber, University of Zurich, Zurich, Switzerland

Realizing a New Global Cyberspace Framework

Normative Foundations and Guiding Principles

In many respects cyberspace has created a new world. The online phenomena encompass social, cultural, economic, and legal facets. Exceeding the present Internet Governance concept the book analyses the normative foundations and guiding principles of a global cyberspace regime that includes the exchange of people, businesses, governments, and other entities. Based on this assessment and philosophical theories the book attempts to outline a model for a general legal framework enshrining key principles of civil society (such as human rights, ethics).

Features
► Addresses the problems caused by the existing normative order of cyberspace ► Analyses the normative foundations and guiding principles of a global cyberspace regime ► Attempts to outline a model for a general legal framework enshrining key principles of civil society

Contents
Introduction.- Confrontation of traditional legal concepts with globalization.- Challenges for regulatory approaches in cyberspace.- In search for new rule-making approaches in cyberspace.- Development of a "Global Cyberspace Framework" (GCF).

Field of interest
International IT and Media Law, Intellectual Property Law

Target groups
Research

Product category
Monograph

S. Yuthayotin, Central Intellectual Property and International Trade Court, Bangkok, Thailand

Access to Justice in Transnational B2C E-Commerce

A Multidimensional Analysis of Consumer Protection Mechanisms

This book identifies institutional mechanisms that can be used to promote consumer confidence in direct online sales with businesses (B2C e-commerce). It argues that enhancing the access to justice in a multidimensional sense can potentially offer an effective means of boosting consumer confidence.

Features
► Recommendations for enhancing access to justice in B2C E-Commerce ► Introduces a conceptual framework for a multidimensional approach to access in justice in the contraxt of consumer protection ► Demonstrates how private online ordering can be successfully implemented with the help of an intermediary, a neutral third party

Contents
1 Consumer Protection in B2C E-Commerce: Enhancing Consumer Confidence.- 2 Access to Justice: A Goal for Consumer Protection.- 3 Towards a Multidimensional Approach to Access to Justice: Setting a Framework for Consumer Protection in B2C E-Commerce.- 4 Substantive Mechanisms for Achieving Access to Justice.- 5 Procedural Mechanisms for Achieving Access to Justice.- 6 Transnational B2C E-Commerce: Legal Harmonization and the Need for a "Second Best Option".- 7 Improving Consumers' Access to Justice in B2C E-Commerce: Private Ordering and State as Intermediary.

Fields of interest
International Economic Law, Trade Law; Dispute Resolution, Mediation, Arbitration; e-Commerce/e-business

Target groups
Research

Product category
Monograph

Due February 2015

2015. Approx. 220 p. Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-11646-4

Due September 2014

2015. XXX, 174 p. 10 illus. Hardcover
► *€ (D) 85,59 | € (A) 87,99 | sFr 106,50
► € 79,99 | £72.00
ISBN 978-3-662-44676-8

Due October 2014

2015. X, 374 p. 8 illus. in color. Hardcover
► *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-3-319-11130-8

M. Carroll, Littleton, CO, USA

Living Among Giants

Exploring and Settling the Outer Solar System

The outer Solar System is rich in resources and may be the best region in which to search for life beyond Earth. In fact, it may ultimately be the best place for Earthlings to set up permanent abodes. This book surveys the feasibility of that prospect, covering the fascinating history of exploration that kicks off our adventure into the outer Solar System. Although other books provide surveys of the outer planets, Carroll approaches it from the perspective of potential future human exploration, exploitation and settlement, using insights from today's leading scientists in the field.

Features
► Provides a unique perspective of the outer Solar System, based on planned and imagined future human exploration and possible colonization ► Offers insights from many of today's leading scientists in the field ► Focuses on destinations for settlement such as Jupiter's ocean-moon Europa, Saturn's moons Enceladus and Titan, Neptune's moon Triton, and even the clouds of the gas and ice giant planets themselves ► Includes numerous illustrations, among them original paintings by the author, a highly regarded and prize-winning space artist

Contents
Preface.- Early Ideas.- How They Got There.- How We Got There.- Jupiter and Saturn.- Uranus and Neptune: Not So Boring After All.- The Galileans: Io, Europa, Ganymede and Callisto.- Titan, The Other Mars.- Frolicking in the Outer Darkness.- Setting Down Roots for Good.

Fields of interest
Popular Science in Astronomy; Planetology; Extraterrestrial Physics, Space Sciences

Target groups
Popular/general

Product category
Popular science

Due November 2014

2015. XV, 200 p. 153 illus., 42 illus. in color. Hardcover
► ***€ (D) 37,44 | € (A) 38,49 | sFr 47,00**
► **€ 34,99 | £19.99**
ISBN 978-3-319-10673-1

M. Inglis, St. Albans, UK

Astrophysics Is Easy

An Introduction for the Amateur Astronomer

Astrophysics is often –with some justification – regarded as incomprehensible without the use of higher mathematics. Consequently, many amateur astronomers miss out on some of the most fascinating aspects of the subject. Astrophysics Is Easy! cuts through the difficult mathematics and explains the basics of astrophysics in accessible terms. Using nothing more than plain arithmetic and simple examples, the workings of the universe are outlined in a straightforward yet detailed and easy-to-grasp manner. The original edition of the book was written over eight years ago, and in that time, advances in observational astronomy have led to new and significant changes to the theories of astrophysics. The new theories will be reflected in both the new and expanded chapters.

Features
► Using nothing more than arithmetic and simple examples, the workings of the universe are explained in a straightforward, yet detailed and coherent manner ► Covers ALL aspects and areas of astrophysics, from our own solar system to the edge of the universe without going into complicated math ► Features new and expanded chapters on Planetary Science, Exoplanets, Active Galaxies and Cosmology with current ideas and the latest research results

Contents
Introduction.- The Tools of the Trade.- Planetary Science.- The Interstellar Medium.- Star Birth.- The Sun and Stars.- The Death of Stars.- Exoplanets.- Galaxies.- Active Galaxies.- Cosmology.- Index.

Fields of interest
Popular Science in Astronomy; Astronomy, Astrophysics and Cosmology

Target groups
Popular/general

Product category
Popular science

Due November 2014

2nd ed. 2015. XVI, 282 p. 57 illus., 45 illus. in color. (The Patrick Moore Practical Astronomy Series) Softcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £22.99**
ISBN 978-3-319-11643-3

D. A. Seargent, The Entrance, NSW, Australia

Weird Universe

Exploring the Most Bizarre Ideas in Cosmology

As new discoveries complicate the scientific picture of the universe, the evolving theories about the nature of space and time and the origins and fate of the universe threaten to become overwhelming. Enter David Seargent. Continuing the author's series of books popularizing strange astronomy facts and knowledge, Weird Universe explains the bizarre, complicated terrain of modern cosmology for lay readers. From exploring some of the strange consequences of the theories of special and general relativity, to probing time dilation and the twin and mother-and-baby "paradoxes" and the theory that the universe can be mathematically considered as a hologram, all of the latest findings and conjectures are clearly described in non-technical language.

Features
► Introduces the most up-to-date and startling research findings in cosmology ► Maintains an approachable, informal and non-technical tone accessible to non-specialists ► Continues the author's well-received "Weird" series, including "Weird Weather," "Weird Astronomy" and "Weird Worlds" ► Like the earlier titles, this one suggests some projects and activities the reader can do to better understand the concepts presented

Contents
From Water World to Inflation.- Space, Time, Relativity and Other Things.- The Shape, Size, Age and Origin of the Universe.- Of Atoms, Quanta, Strings and Branes.- Observations and Ideas From Left Field.- Appendix.

Fields of interest
Popular Science in Astronomy; Astronomy, Astrophysics and Cosmology

Target groups
Popular/general

Product category
Popular science

Due October 2014

2015. XXIV, 178 p. 50 illus., 6 illus. in color. (Astronomers' Universe) Softcover
► ***€ (D) 32,09 | € (A) 32,99 | sFr 40,00**
► **€ 29,99 | £16.99**
ISBN 978-3-319-10737-0

W. K. Cummings, George Washington University, Washington, DC, USA; **U. Teichler,** University of Kassel, Kassel, Germany (Eds)

The Relevance of Academic Work in Comparative Perspective

Contents
The Relevance of the Academy: William K. Cummings and Ulrich Teichler.- The Conditions of Continuity and the Drivers of Change: William K. Cummings.- Coping with the Crisis: Academic Work and Changes in Greek Higher Education: Antigoni Papadimitriou.- Changing Academic Identities in the Context of a Managerial University – Bridging the Duality between Professions and Organizations Evidence from the U.S. and Europe: Liudvika Leisyte.- Teaching and Research in Binary Systems of Higher Education: Convergent or Distinctive Profiles? Egbert de Weert.- The Teaching and Research Nexus from an International Perspective: Akira Arimoto.- Congeniality and Research Productivity in State-Professional-Market Driven Systems of Mass Higher Education: Gerard A. Postiglione and Jisun Jung.- Growth Behavior of Research Collaboration with Heterogeneous Colleagues and Research Commercial Activities in Korean Academics: Soo Jeung Lee.- Academics and Service to the Community: An International (European) Perspective: Bojana Ćulum.- Gender Differences in Research Scholarship among Academics: An International Comparative Perspective: Jisun Jung.- The Academic Profession: The Dynamics of Emerging Countries: Monica Marquina and Mariela Ferreiro.- The Impact of Government Policies on the Profiles and Attitudes of Academics in two Emerging Economies: Brazil and Mexico: Jorge Martínez Stack, Marion Lloyd, and Imanol Ordorika. [...]

Fields of interest
Higher Education; International and Comparative Education

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 200 p. (The Changing Academy – The Changing Academic Profession in International Comparative Perspective, Volume 13) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11766-9

I. Davis, Griffith Institute of Educational Research, Mt Gravatt, QLD, Australia

Stories of Men and Teaching

A New Narrative Approach to Understanding Masculinity and Education

This book investigates the dynamic relationship between masculinity, fiction and teaching answering one central question. How are male teachers influenced by fictional narratives in the construction of masculinities within education? It achieves this in three major steps: by describing a methodological system of narrative analysis that is able to account for the influence of a fictional text alongside a reading of interview data, by focusing on a specific cohort of male teachers in order to measure the influence of a fictional text and the literary tropes they contain, both widening and restricting perceptions of teachers and teaching. The book demonstrates how fictional narratives and their encompassing ideologies can become a powerful force in the shaping of male teachers professional identities.

Features
► Outlines a new paradigm for critical reflective practice ► Details a research project that has been running for four years and has involved over 100 teachers ► Adopts a unique critical position combining education, narrative studies and gender studies

Contents
Preface.- Acknowledgements.- Section 1: Tools and Environments.- 1 Introduction.- 2 The Research Environment.- 3 Theory, Types and Tropes.- Section 2: Stories of Teaching Men .- 4 Stories of Teaching.- 5 Methodological Innovation, Masculinities and Critical Reflective Practice.- 6 Endings, Beginnings and Becomings.

Fields of interest
Teaching and Teacher Education; Learning and Instruction; Childhood Education

Target groups
Research

Product category
Brief

Due October 2014

2015. X, 76 p. 5 illus. (SpringerBriefs in Education) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-981-287-217-3

C. Eric C.K., The Hong Kong Institute of Education, Hong Kong, Hong Kong SAR

Knowledge Management for School Education

This book introduces the application of knowledge management (KM) theories, practices, and tools in school organization for sustainable development. Schools in Asia Pacific have long faced a variety of challenges in terms of sustainable development under the education reforms and curriculum reforms to meet the demands of a knowledge society. Schools are inevitably expected to develop human capital for the knowledge society within the competitive global economy, and to interact with its policy environment and know how to leverage pedagogical knowledge.

Features
► The first book applying knowledge management in school education ► Provides guidelines for schools to implement knowledge management ► Presents strategies that identify, select, organise, distill and package information to improve teacher professional competency and school education quality

Contents
Challenges for Schools in a Knowledge Society.- Knowledge Management for School Development.- Managing Culture for Knowledge Management Implementation.- Cultivating Communities of Practice for Leveraging Knowledge.- Nurturing Teachers' Personal Knowledge Management Competencies.- Institutionalising a School Knowledge Management System.- A Knowledge Management Model for School Development.

Fields of interest
Teaching and Teacher Education; Learning and Instruction; Administration, Organization and Leadership

Target groups
Research

Product category
Brief

Due December 2014

2015. Approx. 75 p. 7 illus. (SpringerBriefs in Education) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-981-287-232-6

R. Flecha, University of Barcelona, Barcelona, Spain

Successful Educational Actions for Inclusion and Social Cohesion in Europe

This monograph analyses and describes successful educational actions with a specific focus on vulnerable groups (i.e. youth, migrants, cultural groups e.g. Roma, women, and people with disabilities). Concrete data that shows success in school performance in subject matters such as math or language will be provided, as well as children, teachers and families accounts of the impact of this success.

Features
► Includes the main conclusions and results of INCLUD-ED, the only Integrated Project on schooling funded under the Framework Programme of Research of the European Union ► Provides data from a large scale study carried out by 15 European research institutions ► Focuses on successful educational actions (SEAs) with evidence of their impact in academic achievement and social cohesion

Contents
1 Introduction: From "best practices" to Successful Educational Actions.- 2. The communicative methodology of the Includ-Ed research.- 3. Forms of classroom arrangement: streaming, mixture, inclusion.- 4. Successful Educational Actions in/outside the classroom.- 5. Successful Educational Actions through family involvement.- 6. Schools as learning communities.- 7. Integrative actions for social inclusion (employment, political participation, access to housing and health).- 8. Recommendations for educational policy.

Fields of interest
Educational Policy and Politics; Sociology of Education

Target groups
Research

Product category
Brief

Due October 2014

2015. XI, 105 p. 9 illus. (SpringerBriefs in Education, Volume 129) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11175-9

X. Ge, University of Oklahoma, Norman, OK, USA; **D. Ifenthaler,** Open Universities Australia, Melbourne, VIC, Australia; **J. M. Spector,** University of North Texas, Denton, TX, USA (Eds)

Emerging Technologies for STEAM Education

This book provides the latest, cutting edge research on preparing students for careers in science, technology, engineering, arts and mathematics using emerging educational technologies.

Features
► Gives insights into the STEAM domains ► Covers international collaborations and current perspectives on issues in practice ► Concrete examples provided for the implementation of a STEAM curriculum

Contents
Forward.- Introduction to the general problem area and the landscape of various concerns and issues.- What happens when portable devices are introduced in schools and colleges on a large scale?.- What happens when learners are moving from one location to another and working with others who may not be enrolled or following a similar curriculum?.- Education, training, competencies, curricula and technology .- Reconceptualizing a college engineering curriculum based on 21st century skills.- Reconceptualizing a high school science curriculum based on 21st century skills.- Reconceptualizing a college liberal arts curriculum based on 21st century skills.- Reconceptualizing a middle school mathematics curriculum based on 21st century skills.-Authentic Learning and Meaningful Assessments .- Learning in and about Complex Domains.- Technologies Gone Awry.- Technologies that Show Potential to Improve Learning and Instruction.- Afterword.

Fields of interest
Educational Technology; Learning and Instruction

Target groups
Research

Product category
Contributed volume

Due February 2015

2015. Approx. 210 p. 50 illus. (Educational Communications and Technology: Issues and Innovations) Hardcover
► **approx. *€ (D) 144,44 | € (A) 148,49 | sFr 177,50**
► **approx. € 134,99 | £120.50**
ISBN 978-3-319-02572-8

P. Gibbs, Middlesex University, London, UK (Ed)

Transdisciplinary Professional Learning and Practice

Contents
Foreword.- About the Authors.- Introduction, Paul Gibbs, Middlesex University, UK.- SECTION ONE.- Transdisciplinary Knowledge Creation, Sue McGregor, Mount Saint Vincent University, Halifax, Nova Scotia.- Changing and sustaining transdisciplinary practice through research partnerships.- Tamara Cumming and Sandie Wong Research Institute for Professional Practice, Learning and Education, Charles Sturt University, Australia.- Transdisciplinary Problems: the Teams addressing them and their support through Team Coaching, Ron Collins, IBM Global Business Services and Annette Fillery-Travis, Middlesex University.- Transdisciplinarity and Nursing Education: Expanding Nursing's Professional Identity and Potential, Sarah Wall University of Alberta, Canada.- Interprofessional education and collaborative practice in health and social care: The need for transdisciplinary mindsets, instruments and mechanisms, Andre Vyt, University College Arteveldehogeschool, Ghent University, Belgium.- Transdisciplinarity Learning in Professional Practice , Raymond Yeung Hong Kong.- SECTION TWO.- Integrating Transdisciplinarity and Translational Concepts and Methods into Graduate Education, Linda Neuhauser, University of California, Berkeley, USA and Christian Pohl, Swiss Academies of Arts and Sciences.- Transdisciplinarity and Educational Knowledge in 'Work Based Learning' , Carol Costley, Middlesex University, UK.- What's actually new about transdisciplinarity? [...]

Fields of interest
Professional and Vocational Education; Educational Philosophy; Higher Education

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 200 p. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11589-4

G. Hadley, Niigata University of Int'l & Info. St., Nigata-shi, Japan

English for Academic Purposes in Neoliberal Universities: A Critical Grounded Theory

The critical grounded theory presented in this book offers valuable insights on the social processes and strategies used by Blended English for Academic Purposes Professionals (BLEAPs) at higher education institutions, as they struggle to negotiate the challenges arising from a new focus on recruiting international students and hunting for other resources for their universities.

Features
► Offers a new perspective on social processes affecting English for Academic Purposes management in Higher Education Juxtaposes existing theories with an empirical study of the practices in English for Academic Purposes units at universities ► Offers an action-based framework that will help teachers and new managers gain greater understanding of and control over issues in their profession ► Critically analyses common management strategies in EAP units in order to encourage good practices

Contents
Acknowledgements.- Table of Figures.- List of Tables.- Chapter 1 Setting the Stage: Context, Concepts, and Theoretical Constructions.- Chapter 2 EAP in the Third Space of Neoliberal Universities.- Chapter 3 The Emergence of Blended EAP Professionals.- Chapter 4 Hunting and Gathering.- Chapter 5 Weighing and Measuring.- Chapter 6 Molding and Shaping from On High.- Chapter 7 Mobbing, Struggling, and Managing: A Story of Professional Disarticulation.- References.

Fields of interest
Language Education; Applied Linguistics; Higher Education

Target groups
Research

Product category
Monograph

Due November 2014

2015. IX, 210 p. 10 illus., 8 illus. in color. (Educational Linguistics, Volume 22) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-10448-5

S. Hsu, National Taiwan University, Taipei, Taiwan; **Y.-Y. Wu,** National Taipei University of Education, Taipei, Taiwan (Eds)

Education as Cultivation in Chinese Culture

Given the increasing global interest in Chinese culture, this book uses case studies to describe and interpret Chinese cultivation in contemporary Taiwanese schools.

Features
► Defines and provides an academic vocabulary to discuss an accepted but overlooked view area of teacher training ► Provides an overarching look at the historical roots of Chinese education and current practice in reflection ► Offers an alternative to standard introduction to education course books and standard Western educational psychology textbooks

Contents
Chapter 1 Introduction.- Chapter 2 Human Nature and Learning in Ancient China.- Chapter 3 The Chinese Way of Goodness.- Chapter 4 Teaching at an Early Age.- Chapter 5 Conflicting Images of Taiwanese Young Children.- Chapter 6 Primary Schooling in Taiwan.- Chapter 7 The Studying and Striving of Secondary Students.- Chapter 8 Art Transforms Destiny: The Unified Examination and Fine Art Education.- Chapter 9 Education-Based Mobility and the Chinese Civilization.- Chapter 10 The conflict between social mobility and individual development.- Chapter 11 Teachers' Dual Responsibilities for Academic Achievement and Character Development.- Chapter 12 Finding a New Identify for Teachers.- Chapter 13 Conclusion.- Appendix.

Fields of interest
Sociology of Education; Community and Environmental Psychology; International and Comparative Education

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. X, 280 p. 18 illus., 15 illus. in color. (Education in the Asia-Pacific Region: Issues, Concerns and Prospects, Volume 26) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-981-287-223-4

L. HUO, Beijing Normal University, Beijing, China; **S. B. NEUMAN,** University of Michigan, Ann Arbor, MI, USA; **A. NANAKIDA,** Hiroshima University, Higashi-Hiroshim, Japan (Eds)

Early Childhood Education in Three Cultures

China, Japan and the United States

Features
► Reveals the dominated theories and practices in early childhood education that each culture emphasizes ► Contributes to understanding the norms and practices of teaching in the very early years in these cultures ► Brings a rich dialogue and discussion of similarities and differences among cultures

Contents
Part I Being, Belonging and Becoming: Child Image and Curriculum Reforms.- The Centennial Change from Imitation to Innovation: Early Childhood Education and Curriculum Reform in China.- Early Childhood Education and Care Curriculum in Japan.- Play with a Purpose: Creating Meaningful Environments with Children, Families, and Communities in the United States.- Part II Childcare Policies in Changing Contexts.- Describing the Early Childhood Policy Landscape in the United States.- Latest Development of Japanese Kindergarten Education Policy.- The Evolution and Innovation of China's Preschool Education Financial System.- Part III Best Practices for Early Childhood Teacher Professional Development.- Early Childhood Challenge: Preparing High-Quality Teachers for a Changing Society in the United States.- Current Issues in ECEC Teacher Education in Japan.- How to Advance the Initial Training System for Chinese Kindergarten Teachers in a New Era.

Fields of interest
Childhood Education; International and Comparative Education

Target groups
Research

Product category
Contributed volume

Due January 2015

2015. Approx. 200 p. 40 illus. in color. (New Frontiers of Educational Research) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44985-1

M. Juan-Garau, J. Salazar-Noguera, University of the Balearic Islands, Palma de Mallorca, Spain (Eds)

Content-based Language Learning in Multilingual Educational Environments

Contents

Introduction: The Relevance of CLIL Education in Achieving Multilingualism on the Global Stage.- Part I Towards Multilingualism through CLIL.- Different Educational Approaches to Bi/Multilingualism and their Effect on Language Attitudes.- Languages for all in Education: CLIL and ICLHE at the Crossroads of Multilingualism, Mobility and Internationalism.- The Effects of Implementing CLIL in Education.- Influences of Previously Learned Languages on the Learning and use of Additional Languages.- Time and Timing in CLIL: A Comparative Approach to Language Gains.- Part II Research on CLIL Education in Multilingual Settings.- Learning English and Learning through English: Insights from Secondary Education.- Testing Progress on Receptive Skills in CLIL and non-CLIL Contexts.- Writing Development under CLIL Provision.- Does CLIL Enhance Oral Skills? Fluency and Pronunciation Errors by Spanish-Catalan Learners of English.- Lexico-Grammatical Development in Secondary Education CLIL Learners.- Exploring Affective Factors in L3 Learning: CLIL vs. Non-CLIL.- English Learners' Willingness to Communicate and Achievement in CLIL and Formal Instruction Contexts.- CLIL in Context: Profiling Language Abilities.

Fields of interest

Language Education; Learning and Instruction

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. X, 270 p. 22 illus., 3 illus. in color. (Educational Linguistics, Volume 23) Hardcover

► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **€ 99,99 | £90.00**

ISBN 978-3-319-11495-8

M. Kennedy, University of Canberra, Bruce, ACT, Australia; **S. Billett,** Griffith University, Nathan, QLD, Australia; **S. Gherardi,** University of Trento, Trento, Italy; **L. Grealish,** Griffith University, Gold Coast, QLD, Australia (Eds)

Practice-based Learning in Higher Education

Jostling Cultures

Contents

1. Practice-based learning in higher education: Jostling cultures. Kennedy, Billett, Gherardi and Grealish 2. The practices of using and integrating practice-based learning in higher education. Billett 3. Knowledge claims and values in higher education. Kennedy 4. Developing critical moral agency through workplace engagement. Campbell and Zegwaard 5. Standards and Standardization. Hungerford and Kench 6. Professional standards in curriculum design: a socio-technical analysis of nursing competency standards. Grealish 7. The role of epistemology in practice-based learning: the case of artifacts. Walkington and Williams 8. E-learning as Organizing Practice in Higher Education. Bispo 9. Learning in practice in the higher education. Vitteritti 10. Practice-based learning in community contexts: A collaborative exploration of pedagogical principles . Smith, Shaw and Tredennick 11. Managing competing demands in the delivery of work integrated learning: An Institutional Case study. Smigiel, Stephenson and Macleod 12. Conclusions: Towards an understanding of education as a social practice. Gherardi

Fields of interest

Professional and Vocational Education; Higher Education; Learning and Instruction

Target groups

Research

Product category

Contributed volume

Due December 2014

2014. Approx. 170 p. (Professional and Practice-based Learning, Volume 10) Hardcover

► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **approx. € 99,99 | £90.00**

ISBN 978-94-017-9501-2

C. Koh, Nanyang Technological University, Singapore, Singapore (Ed)

Motivation, Leadership and Curriculum design

Engaging the Net Generation and 21st Century Learners

Contents

Understanding and facilitating learning for the Net Generation and 21st Century learner through motivation, leadership and curriculum design..- Caroline Koh.- PART 1:MOTIVATING THE 21st CENTURY AND NET GEN LEARNERS.- Identifying Factors Influencing Students' Motivation and Engagement in Online Courses.- Dilani Gedera, John Williams and Noeline Wright.- Supporting the Needs of 21st Century Learners: A Self-Determination Theory perspective.- W. L. Quint Oga-Baldwin.- Examining the Influence of the Big Five Personality Traits on the Relationship between Autonomy, Motivation and Academic Achievement in the 21st Century Learner.- Kah Loong Chue.- Online Assessment and Learner Motivation in the 21st Century .- Cathy Gunn.- Motivating Netizens to Develop Personal Knowledge management skills.- Ashwini Datt and Trudi Aspden.- The Promise of Well-Being for the Net Generation.- Collie W. Conoley, Beatriz Bellow, Mercedes Oromendia and Jane Close Conoley.- PART 2:LEADING 21st CENTURY LEARNING .- A Closer Look at Developing Positive Learning Climate in the 21st Century: The Role of Instructional Leadership Practices.- Irene Ng .- Leadership Influence on the 21st Century Teacher's Motivation for Professional Development.- Maria Sit.- Using Technology to Scaffold Problem-based Learning in Teacher Education: Its Tensions and Implications for Curriculum Designers.- Bee Leng Chua, Oon Seng Tan, Woon Chia Liu. [...]

Field of interest

Educational Technology

Target groups

Research

Product category

Contributed volume

Due December 2014

2015. Approx. 200 p. 14 illus. Hardcover

► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **approx. € 99,99 | £90.00**

ISBN 978-981-287-229-6

T. Lowrie, Charles Sturt University, Wagga Wagga, NSW, Australia; **R. Jorgensen,** Griffith University, Mt Gravatt, QLD, Australia (Eds)

Digital Games and Mathematics Learning

Potential, promises and pitfalls

Digital games offer enormous potential for learning and engagement in mathematics ideas and processes. This collection offers multidisciplinary perspectives—of educators, cognitive scientists, psychologists and sociologists—on how digital games shape new ways in which learners/gamers engage with both the social activity of gaming and mathematical ideas. This volume identifies opportunities for broadening current understandings of how mathematical ideas are fostered (and embedded) within digital game environments. In particular, the volume advocates for new and different ways of thinking about mathematics in our digital age—proposing that these mathematical ideas and numeracy practices are distinct from new literacies or multiliteracies. This collection recognises that the promise of digital games have not always been realised/fulfilled.

Features
► Represents a multi-disciplinary investigation of the influence and impact digital games have on young students mathematics engagement ► Focuses on engagement in out-of-school contexts and learning situations beyond classrooms ► Additional video and graphics will add depth and richness to the text, providing a more dynamic and multi-modal representation of research in digital learning contexts ► Features mathematics ideas through multidisciplinary and transdisciplinary lenses

Fields of interest
Mathematics Education; Computers and Education; Educational Technology

Target groups
Research

Product category
Contributed volume

Due February 2015

2014. Approx. 300 p. 25 illus. (Mathematics Education in the Digital Era, Volume 4) Hardcover
► **approx. *€ (D) 106,95 | € (A) 109,95 | sFr 133,50**
► **approx. € 99,95 | £90.00**
ISBN 978-94-017-9516-6

New Series
Environmental Discourses in Science Education

D. J. Tippins, Series editor: **M. P. Mueller**

This series wrestles with the tensions situated between environmental and science education and addresses the scholarly efforts to bring confluence to these two projects with the help of ecojustice philosophy. As ecojustice is one of the fastest emerging trends for evaluating science education policy, the topics addressed in this series can help guide pedagogical trends such as critical media literacy, citizen science, and activism. The series emphasizes ideological analysis, curriculum studies and research in science educational policy, where there is a need for recognizing the tensions between cultural and natural systems, the way language is endorsed within communities and associated influence, and morals and ethics embedded in school science. Conversations and new perspectives on residual issues within science education are likely to be addressed in nuanced ways when considering the significance of ecojustice, defensible environmentalism, free-choice. Book proposals for this series may be submitted to the Publishing Editor: Bernadette Ohmer E-mail: Bernadette.Ohmer@springer.com EDITORIAL BOARD David Greenwood, Lakehead University, Canada Clayton Todd Peirce, University of Utah, USA Giuliano Reis, University of Ottawa, USA Mariona Espinet, University of Barcelona, Spain Caren Cooper, Cornell University, USA Maria Rivera Maulucci, Barnard College, USA Michiel van Eijck, Eindhoven University of Technology, Netherlands (1968 – 2014) Arthur Stewart, Oak Ridge Associated Universities, USA

M. P. Mueller, University of Alaska Anchorage, Anchorage, AK, USA; **D. J. Tippins,** University of Georgia, Athens, GA, USA (Eds)

EcoJustice, Citizen Science and Youth Activism

Situated Tensions for Science Education

Contents
Put Away Your Pencils-Reconceptualizing School Accountability through EcoJustice.- Provoking EcoJustice-Taking Citizen Science and Youth Activism Beyond the School Curriculum.- The Sustainable Farm School-Waldorf Philosophy and EcoJustice Theory in Aesthetic Contexts.- Building Teacher Leaders and Sustaining Local Communities through a Collaborative Farm to School Education Project-What EcoJustice Work Can PreService Teachers Do?.- Drawing on Place and Culture for Climate Change Education in Native Communities.- The Will of the Ancestors: A Collaborative Elementary Science Curriculum Design Initiative.- Eco, Social, or Any Other Justice? Critical Awareness among International Service-Learning Program Participants in Costa Rica.- Art to Capture Learning about the Longleaf Pine Ecosystem-Why a Picture is Worth a Thousand Words.- Ponder This? Editorial by J Myron Atkin.- The Commonplaces of Schooling and Citizen Science-Editorial by Xavier Fazio and Doug Karrow.- Living History-Challenging Citizen Science and Youth Activism through Historical Re-enacting.- Teaching with Citizen Science-It's More than Just Putting Out Fires!.- Carrizo Springs, Texas-The Story of the Systems Academy for Young Scientists (SAYS).- Mediated Pedagogy in a Blended Environment: Impact of Processes and Settings. [...]

Fields of interest
Science Education; Environmental Law/Policy/Ecojustice; Educational Philosophy

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 345 p. 100 illus. in color. (Environmental Discourses in Science Education, Volume 1) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11607-5

H.-U. Otto, Bielefeld University, Bielefeld, Germany (Ed)

Facing Trajectories from School to Work

Towards a Capability-Friendly Youth Policy in Europe

Contents

FOREWORD.- Fighting Social Inequality for Vulnerable Youth – A European Case, Hans-Uwe Otto.- CAPABILITY PERSPECTIVES ON VULNERABLE YOUTH IN EUROPE.- Chapter 1 Towards a Capabilities Perspective on Vulnerable Young People in Europe – An Introduction.- Holger Ziegler, Thierry Berthet, Roland Atzmüller, Jean-Michel Bonvin & Christian C. Kjeldsen.- Chapter 2 The Capability Approach, Education and the Labour Market, Christian Christrup Kjeldsen & Jean-Michel Bonvin.- CHANGES OF WELFARE POLICIES AND THE ROLE OF THE CAPABILITY APPROACH.- Chapter 3 Multi-level governance and capability approach: What convergence? Thierry Berthet.- Chapter 4 New Conditions of Professional Work or Fall of Professions? On Managerialism and Professionalism, Holger Ziegler & Niels Rosendal Jensen.- CAPABILITY PERSPECTIVES ON INSTITUTIONALIZED EDUCATION.- Chapter 5 Free Choice of Education? Capabilities, possibility spaces and incapacitations of education, labor and the way of living one values, Dirk Michel-Schertges.- Chapter 6 European Universities and Educational and Occupational Intergenerational Social Mobility, Marek Kwiek.- CAPABILITIES, LABOUR MARKET AND EDUCATION IN EUROPE.- Chapter 7 Operationalisation of the Capability Approach, Enrica Chiappero-Martinetti, Valerie Egdell, Emma Hollywood & Ronald McQuaid. [...]

Fields of interest

Professional and Vocational Education; Educational Policy and Politics; Higher Education

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. XVII, 400 p. 10 illus., 9 illus. in color. (Technical and Vocational Education and Training: Issues, Concerns and Prospects, Volume 20) Hardcover

► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**

► **€ 129,99 | £117.00**

ISBN 978-3-319-11435-4

B. Perry, A. MacDonald, Charles Sturt University, Albury, NSW, Australia; **A. Gervasoni,** Australian Catholic University, Ballarat, VIC, Australia (Eds)

Mathematics and Transition to School

International Perspectives

Contents

1 Mathematics and Transition to School: Theoretical Frameworks and Practical Implications.- Part I The Mathematics Young Children Bring to the First Year of School.- 2 Swimming Upstream in a Torrent of Assessment.- 3 Assessing Young Children's Mathematical Understanding: Opportunities and Expectations at the Transition to School.- 4 Children's Mathematical Knowledge Prior to Starting School and Implications for Transition.- 5 Transition to School: Prior to School Mathematical Skills and Knowledge of Low-Achieving Children at the End of Grade 1.- 6 Let's Count: Early Childhood Educators and Families Working in Partnership to Support Young Children's Transitions in Mathematics Education.- 7 The Role of the Home Environment in Children's Early Numeracy Development: A Canadian Perspective.- 8 Mathematics Teachers Responding to Children's Resources to Create Learning for All.- Part II Continuity of Mathematics Curriculum and/or Pedagogy as Children Begin School.- 9 The Relationship Between Policy and Practice in the Early Mathematics Curriculum for Reception-Class Children in England.- 10 Scaling Up Early Mathematics Interventions: Transitioning with Trajectories and Technologies.- 11 Partnerships that Support Children's Mathematics During the Transition to School: Perceptions, Barriers and Opportunities.- 12 The Culture of the Mathematics Classroom During the First School Years in Finland and Sweden. [...]

Fields of interest

Mathematics Education; Childhood Education; Learning and Instruction

Target groups

Research

Product category

Contributed volume

Due January 2015

2015. Approx. 250 p. 20 illus. (Early Mathematics Learning and Development) Hardcover

► **approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **approx. € 99,99 | £90.00**

ISBN 978-981-287-214-2

C. N. Power, University of Queensland, Brisbane, QLD, Australia

The Power of Education

Education for All, Development, Globalisation and UNESCO

This book is about the power of education: the kind of education that simultaneously improves the quality of life both of individuals and the wider society.

Features

► Equips readers with a deeper understanding of the challenges facing education and development agencies in the global knowledge society ► Provides an insider's account of the role played by the international community in supporting quality education for all, lifelong learning and education reform ► Offers a uniquely global perspective on the power of education to change societies, trends in education policy and practice, and progress being made in achieving internationally-agreed education and development goals ► Challenging and insightful, combines scholarly analysis with practical examples of how international programs contribute to building a more equitable, peaceful and sustainable world

Contents

Preface.- 1. The power of education.- 2. The right to education.- 3. Towards a literate world.- 4. Education for all - a quiet revolution.- 5. Education for all - milestones and millstones.- 6. Education for the 21st century.- 7. Education- the tree of life.- 8. Towards a culture of peace.- 9. Education at the crossroads.- 10. Higher Education – the engine of development.- 11. Games and game-changers in teaching and learning.- 12. Science, technology, health and sustainable development.- 13. On building and rebuilding nations.- 14. Power, policy making and globalisation.

Field of interest

International and Comparative Education

Target groups

Research

Product category

Monograph

Due November 2014

2015. XI, 264 p. 2 illus., 1 illus. in color. (Education in the Asia-Pacific Region: Issues, Concerns and Prospects, Volume 27) Hardcover

► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**

► **€ 99,99 | £90.00**

ISBN 978-981-287-220-3

J. C. Shin, Seoul National University, Seoul, Korea, Republic of (South Korea); **P. Teixeira,** CIPES Faculdade de Economia do Porto, Portugal (Eds)

International Encyclopedia of Higher Education Systems and Institutions

Contents
Part 1: Thematic entries, about 7 section editors, neither of them have been approached at this stage.- Elite and Mass Higher Education in the 21st Century – possible names: John Brennan, Svein Kyvik.- Higher Education as a Global Reality – David Baker, Simon Marginson, Steve Heyneman.- The State and Higher Education – Michael Bastedo, Gary Rhoades. [...]

Fields of interest
Higher Education; International and Comparative Education; Educational Policy and Politics

Target groups
Research

Product category
Encyclop(a)edia

SPRINGER REFERENCE

Due June 2015

Print

2015. 3000 p. In 5 volumes, not available separately.
► approx. *€ (D) 1391,00 | € (A) 1430,00 | sFr 1731,00
► approx. € 1300,00 | £1170.00
ISBN 978-94-017-8904-2

eReference

2015. eReference.
► approx. **€ (D) 1547,00 | € (A) 1560,00 | sFr 1818,50
► approx. € 1300,00 | £1170.00
ISBN 978-94-017-8905-9

Print + eReference

2015. 3000 p. Print + eReference. In 5 volumes, not available separately.
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► approx. € 1625,00 | £1462.50
ISBN 978-94-017-8906-6

E. Silver, University of Michigan, Ann Arbor, MI, USA; **C. Keitel-Kreidt,** FU Berlin, FB Erziehungswissenschaft und,, Berlin, Germany (Eds)

Pursuing Excellence in Mathematics Education

Essays in Honor of Jeremy Kilpatrick

Contents
Foreword.- Introduction.- I. Jeremy Kilpatrick: Colleague, Mentor & Collaborator.- What's Involved in the Work of Dissertation Advising? An Interview with Jeremy Kilpatrick and Some Personal Reflections.- Collaboration and Friendship with Jeremy Kilpatrick: Two Sides of Success and Challenge.- II. Mathematical Problem Solving and Mathematics Curriculum.- When is a Problem? Contribution in Honour of Jeremy Kilpatrick.- Problem solving, exercises and explorations in mathematics textbooks: A historical perspective.- From mathematical problem solving to geocaching: A journey inspired by my encounter with Jeremy Kilpatrick.- Ruminations on the Generated Curriculum and Reform in Community College Mathematics: An Essay in Honor of Jeremy Kilpatrick.- III. The Interaction of Theory, Practice and Politics in Mathematics Education.- Mathematics, Knowledge and Political Power.- Democratising Mathematics Education and the Role of Research.- On the Diversity and Multiplicity of Theories in Mathematics Education.- Toward A Profession of Mathematics Education: Guidance from Jeremy Kilpatrick's Words and Deeds.

Field of interest
Mathematics Education

Target groups
Research

Product category
Contributed volume

Due December 2014

2015. XII, 236 p. (Mathematics Education Library) Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-319-11951-9

S. D. Tunnicliffe, University of London, London, UK; **A. Scheersoi,** University of Bonn, Bonn, Germany (Eds)

Natural History Dioramas

History, Construction and Educational Role

Contents
Introduction, Sue Dale Tunnicliffe, London (UK) & Annette Scheersoi, Bonn (D).- I. History and Features of Natural History Dioramas.- I.1 History of Dioramas, Claudia Kamcke, Braunschweig, & Rainer Hutterer, Bonn (D).- I.2 Dioramas as historical documents, Rainer Hutterer, Bonn (D).- I.3 A window on the world – wildlife dioramas, Pat Morris, Ascot (US).- I.4 Dioramas as constructs of reality: Art, photography, and the discursive space, Geraldine Howie (UK).- I.5 James Perry Wilson: Shifting paradigms of natural history diorama painting, Michael Anderson, Yale (US).- II. Resurrecting and Modern Dioramas.- II.1 Dioramas in Natural History Museum – Tools for nature conservation, John Borg, Mdina (MT).- II.2 Using technology to deepen and extend visitor's interaction with dioramas, Mark Loveland, Barbara Buckley & Edys Quellmalz, WestEd (US).- II.3 Displaying Ecological Landscapes by Dioramas - an example provided by Zhejiang Museum of Natural History, Ximin Kang, Zhejiang (CHN).- II.4 Conservative restoration and reconstruction of historical Natural History Dioramas, Mareike Munsch, Hartmut Schmiese, Aleksandra Angelov, Gunnar Riedel & Jörn Köhler, Darmstadt (D).- III. Learning at dioramas.- III.1 Dioramas as important tools in biological education, Sue Dale Tunnicliffe & Annette Scheersoi.- III.2 Catching the visitor's interest, Annette Scheersoi.- III. 3 Naming and narratives at dioramas, Sue Dale Tunnicliffe.- III.4 The evolution of the narrative at natural history dioramas, Alix Cotumaggio, New York (US). [...]

Fields of interest
Science Education; Philosophy of Biology; History of Science

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. Approx. 200 p. 50 illus. Hardcover
► *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-94-017-9495-4

J. Zajda, Australian Catholic University, Fitzroy, VIC, Australia (Ed)

Second International Handbook on Globalisation, Education and Policy Research

This handbook presents a global overview of developments in education and policy change during the last decade. It provides an accessible, practical and comparative source of current research that examines the intersecting and diverse discourses of this important issue. Divided into two parts, the handbook first examines globalisation and education policy reforms, including coverage of main trends as well as specific policy issues such as gender, equity, minorities and human rights. Next, the handbook offers a comparative perspective that evaluates the ambivalent and problematic relationship between globalisation, the state and education reforms globally. It features coverage on curricula issues and education reforms in schools around the world as well as the curriculum in the global culture.

Features
► Examines central discourses surrounding the debate of globalisation, education and policy reforms ► Illustrates the nexus between globalisation, the state and education ► Demonstrates ideological imperatives of globalisation and education reforms ► Evaluates the ambivalent and problematic relationship between globalisation, the state and education reforms globally

Fields of interest
Educational Policy and Politics; International and Comparative Education; Higher Education

Target groups
Research

Product category
Handbook

Due November 2014

2015. 700 p. Hardcover
► ***€ (D) 266,43 | € (A) 273,90 | sFr 331,50**
► **€ 249,00 | £224.50**
ISBN 978-94-017-9492-3

S. Alexander Rompf, Universität Mannheim, Mannheim, Germany

Trust and Rationality

An Integrative Framework for Trust Research

Combining economic, social-psychological and sociological approaches to trust, this book provides a general theoretical framework to causally explain conditional and unconditional trust; it also presents an experimental test of the corresponding integrative model and its predictions. Broadly, it aims at advancing a cognitive turn in trust research by highlighting the importance of (1) an actor´s context-dependent definition of the situation and (2) the flexible and dynamic degree of rationality involved. In essence, trust is as "multifaceted" as there are cognitive routes that take us to the choice of a trusting act. Therefore, variable rationality has to be incorporated as an orthogonal dimension to the typological space of trust. The theory presents an analytically tractable model; the empirical test combines trust games, high- and low-incentive conditions, framing manipulations, and psychometric measurements, and is complemented by decision-time analyses.

Feature
► Study in the field of social sciences

Contents
Objective Structure & Subjective Experience.- Trust and Rationality.- Explaining Conditional and Unconditional Trust.- Empirical Test and Synthesis.

Fields of interest
Sociological Theory; Cognitive Psychology

Target groups
Research

Product category
Monograph

Due October 2014

2015. Approx. 430 p. 48 illus. (Forschung und Entwicklung in der Analytischen Soziologie) Softcover
► ***€ (D) 59,99 | € (A) 61,68 | sFr 75,00**
► **€ 56,07 | £50.99**
ISBN 978-3-658-07326-8

F. D. Barth, New York, NY, USA

Integrative Clinical Social Work Practice

A Contemporary Perspective

In recent history the practice of medicine and mental health has been increasingly eclectic as more and more practitioners harness seemingly disparate therapies and techniques to arrive at clinical breakthroughs. But while social work professionals have been involved in integrative practice informally and intuitively for years, resources to bring structure to this therapeutic concept have been few and far between. In response, Integrative Social Work Practice offers innovative ways of conceptualizing cases, communicating with clients and making better therapeutic use of client individuality. Rich in research, evidence-based and clinical material from a variety of settings, the book begins with the basic organizing principles behind effective integrative practice.

Features
► Provides a unifying theory of social work practice ► Reviews existing clinical and research literature on integrated approaches ► Offers practical guidelines to inform treatment, supervision and training of clinicians

Contents
Preface.- Integration or Eclecticism: Rationale for an Integrative Theory.- Contemporary Psychodynamic Models.- Developmental Models.- Cognitive and Behavioral Models.- The Body-Mind Connection.- Making Assessments and Choosing Interventions.- An Integrative Approach to Therapeutic Relationships.- Small Steps and Manageable Goals.- Building and Working with an Integrative Team.- Working on and Working through.

Fields of interest
Social Work; Psychotherapy and Counseling; Psychotherapy

Target groups
Professional/practitioner

Product category
Monograph

Available

2014. XVII, 166 p. 1 illus. (Essential Clinical Social Work Series) Softcover
► ***€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **€ 39,99 | £35.99**
ISBN 978-1-4939-2015-0

D. Bruns, Universität Kassel, Kassel, Germany; **O. Kühne,** Hochschule Weihenstephan-Triesdorf, Freising, Germany; **A. Schönwald,** Universität des Saarlandes, Saarbrücken, Germany; **S. Theile,** Universität Kassel, Kassel, Germany (Eds)

Landscape Culture - culturing Landscapes

The differentiated construction of Landscapes

Increasing international migration the seemingly universal penetration of landscapes (including the internet) and global travel call for research to consider the multitude of different cultural meanings of landscapes. This book reflects the mecanisms of the creation of culture as well as the mecanisms of the social construction of landscapes. The logics of multi-cultural perceptions and meanings of landscape are reflected by an international authorship. The book also provides guidance on cultural sensitive issues and inclusion in practical planning.

Features
► Reflects the different meanings and mecanisms of culture - in which way do they affect the social construction of landscapes? ► International authorship ► Provides guidance on cultural sensitive issues and inclusion in practical planning

Contents
Introduction.- The social contruction of landscapes and the creation of culture.- The social construction of landscapes regarding different cultural backgrounds.- Requirements and guidance on cultural sensitive issues and parctical planning

Fields of interest
Cultural Studies; Social Structure, Social Inequality; Social Sciences, general

Target groups
Professional/practitioner

Product category
Professional book

Due February 2015

2015. Approx. 280 p. 100 illus. (RaumFragen: Stadt – Region – Landschaft) Softcover
► **approx. *€ (D) 42,79 | € (A) 43,99 | sFr 53,50**
► **approx. € 39,99 | £35.99**
ISBN 978-3-658-04283-7

S. Chirikure, University of Cape Town, Cape Town, South Africa

Metals in Past Societies

A Global Perspective on Indigenous African Metallurgy

This book seeks to communicate to both a global and local audience, the key attributes of pre-industrial African metallurgy such as technological variation across space and time, methods of mining and extractive metallurgy and the fabrication of metal objects. These processes were transformative in a physical and metaphoric sense, which made them total social facts. Because the production and use of metals was an accretion of various categories of practice, a chaine operatoire conceptual and theoretical framework that simultaneously considers the embedded technological and anthropological factors was used.

Features
► Communicates the key attributes of African metallurgy, to both a global and local audience ► Provides narrative on conceptual gaps between the technological and sociological dimensions of metallurgy ► Considers the five metals of Sub-Saharan African civilizations, and how their working varied from area to area within the wider archaeology of the continent

Contents
Chapter 1: Metals and the production and reproduction of society.- Chapter 2: Origins and development of Africa's pre-industrial mining and metallurgy.- Chapter 3: Mother earth provides: mining and crossing the boundary between nature and culture.- Chapter 4: Domesticating nature.- Chapter 5: Socializing metals.- Introduction: fabricating metal into cultural products.- Chapter 6: The social role of metals.- Chapter 7: Bridging conceptual boundaries, a global perspective.

Fields of interest
Archaeology; Anthropology; Metallic Materials

Target groups
Research

Product category
Brief

Due December 2014

2014. Approx. 150 p. 64 illus., 43 illus. in color. (SpringerBriefs in Archaeology) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11640-2

I. Cook, Liverpool John Moores University, Liverpool, UK; **J. P. Halsall,** University of Huddersfield, Huddersfield, UK; **P. Wankhade,** Edge Hill University, Ormskirk, UK

Sociability, Social Capital, and Community Development

A Public Health Perspective

This book provides a critical understanding of contemporary issues within global society and how these relate to six case study examples (UK, USA, China, India, South Africa, Bangladesh, and Japan). The authors draw on their diverse experience to explore four major themes of contemporary relevance: overall aging of societies; governance and institutions; emergency services and public health provisions; and community activism and involvement. The key issues within the book--sociability, social capital, and community development--are examined in the context of an ever increasing aging world.

Features
► Provides optimistic perspective on contemporary concerns about shrinking of state welfare provision and how communities can meet the resultant gap ► Focuses on key concepts of sociability, social capital, and community development ► Case study approach gives a vibrancy and real-world emphasis ► Provides contemporary international perspectives to the chosen themes

Contents
Introduction.- United Kingdom.- United States.- China.- India.- South Africa.- Bangladesh.- Japan.- The Netherlands.- Conclusion: Looking to the future: what next?.

Fields of interest
Quality of Life Research; Public Health; Aging

Target groups
Research

Product category
Contributed volume

Due November 2014

2015. I, 149 p. 2 illus. (International Perspectives on Social Policy, Administration, and Practice) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11483-5

A. Cucina, Universidad Autónoma de Yucatán, Mérida, Mexico (Ed)

Archaeology and Bioarchaeology of Population Movement among the Prehispanic Maya

Contents
Introduction. Andrea Cucina.- Chapter 1: Xcambo and its Commercial Dynamics Within the Framework of the Maya Area. Thelma N. Sierra Sosa.- Chapter 2: Ceramic Traditions in the Calakmul Region: An Indicator of the Movement of Ideas or Populations? María del Rosario Domínguez Carrasco & William J. Folan.- Chapter 3: Cultural Interchange Regarding the Distribution of Fine Paste Ceramics Within Riverine Societies Along the Usumacinta's Mid to Low Basin and Various Gulf Coast's Communities. Socorro del Pilar Jiménez Alvarez.- Chapter 4: Calakmul: Power, Perseverance and Persistence. William J. Folan, Maria del Rosario Domínguez Carrasco, Joel D. Gunn, Abel Morales L., Raymundo González H., Gerardo Villanueva García & Nuría Torrescano Valle.- Chapter 5: The Historic Presence of Itza, Putun and Toltec in the Maya Lowlands at the End of the Classic and Postclassic Periods. Rafael Cobos.- Chapter 6: The Use of Theoretical and Methodological Bases in Population Movements' Studies: Paleo and Archaeo Demographic Approaches. Allan Ortega Muñoz.- Chapter 7: Population Dynamics during the Classic and Postclassic Period Maya in the Northern Maya Lowlands: The Analysis of Dental Morphological Traits. Andrea Cucina.- Chapter 8: The Buk Phase Burials of Belize: Testing Genetic Relatedness Among Early Postclassic Groups in Northern Belize Using Dental Morphology. Gabriel Wrobel & Elizabeth Graham.- Chapter 9: Dental Nonmetric Investigation of Population Dynamics at Mayapan. [...]

Field of interest
Archaeology

Target groups
Research

Product category
Brief

Due October 2014

2015. XXVI, 200 p. 43 illus., 16 illus. in color. (SpringerBriefs in Archaeology) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-10857-5

D. P. Garrett, City University of Hong Kong, Kowloon, Hong Kong SAR

Counter-hegemonic Resistance in China's Hong Kong

Visualizing Protest in the City

Contents

Preface.- Chapter 1: Introduction.- 1.1: A Rising Counter-hegemonic Chorus.- 1.2: Targets of Outrage.- 1.3: Protest as Cultural Object and Symbol of 'One Country, Two Systems'.- 1.4: Why a subaltern-hegemonic construct?.- 1.5: Observational Framework: Visualizing Protest.- 1.6: Data & Method.- 1.7: Photo Essays.- 1.7.1: March on China's Liaison Office over Suspicious Death of Tiananmen activist Li Wangyang, June 2012.- 1.7.2: Demonstration over Anti-Islam "Innocence of Islam" YouTube Video, September 2012.- 1.7.3: Protest over U.S. Intervention in Syria, September 2013.- 1.7.4: 'Defend Snowden' Rally from Charter Garden to the U.S. Consulate, June 2013.- 1.7.5: 'Justice for Erwiana' protests and 'One Billion Rising for Justice,' January and February 2014.- 1.7.6: Taiwan Sunflower Movement, Candlelight Vigil, and "We Save Taiwan in Hong Kong," March 2014.- 1.7.7: 'Anti-locust' and 'Patriotic Parody' protests; 'Toddler-gate' Stickers, February and March 2014.- 1.7.8: 'Save Vietnam': South China Seas Conflict, June 2014.- 1.7.9: 'Defend Hong Kong Press Freedoms!,' March 2014.- References.- Chapter 2: Visual Struggle.- 2.1: Visual Struggle: Image Bites, Events & Politics.- 2.2: Targets of Visual Struggle.- 2.3: Spreading Conflagrations of Counter-Visuality.- 2.4: Photo Essays. [...]

Field of interest
Political Science, general

Target groups
Research

Product category
Monograph

Due November 2014

2015. I, 100 p. 530 illus. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-981-287-235-7

N. Gutschow, Heidelberg University South Asia Institute, Heidelberg, Germany; **K. Weiler,** Heidelberg University Cluster of Excellence "Asia and Europe", Heidelberg, Germany (Eds)

Spirits in Transcultural Skies

Auspicious and Protective Spirits in Artefacts and Architecture Between East and West

The volume investigates the visualization of both ritual and decorative aspects of auspiciousness and protection in the form of celestial characters in art and architecture. In doing so, it covers more than two and a half millennia and a broad geographical area, documenting a practice found in nearly every corner of the world. Its transcultural approach aims at gaining insights into cultural dynamics and consistent networks and defining new historical mindmaps; it examines reciprocal effects and aspects of interwovenness in art and architecture with a view to reconceptualizing their established realms. The collection opens a window on a phenomenon in the history of art and architecture that has never before been considered from this perspective.

Features
► Nine comprehensive articles that focus upon a transcultural iconography in art history ► Methodologically innovative approaches to redefine and develop the practice of identification and classification of angelic motifs as a means to understanding meaning ► Around 130 illustrations of goddesses, gods, genii, victoriae, angels, paris, apsaras, vidyādharis, shenren, yuren, hiten, tennin, winged dragons etc. ► ādharis, shenren, yuren, hiten, tennin, winged dragons etc.

Field of interest
Cultural Studies

Target groups
Research

Product category
Monograph

Due November 2014

2015. IV, 155 p. 119 illus., 80 illus. in color. (Transcultural Research – Heidelberg Studies on Asia and Europe in a Global Context) Softcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-319-11631-0

D. Hofmann, Cardiff University, Cardiff, UK; **J. Smyth,** University of Bristol, Bristol, UK (Eds)

Tracking the Neolithic House in Europe

Sedentism, Architecture and Practice

Contents

1. Introduction: Dwelling, materials, cosmology – transforming houses in the Neolithic Daniela Hofmann and Jessica Smyth.-2. Houses and households: Near Eastern perspective Nigel Goring-Morris and Anna Belfer-Cohen.-3. Diversity, uniformity and the transformative properties of the house in Neolithic Greece Stella Souvatzi.-4. Embodied houses: the social and symbolic agency of Neolithic architecture in the Republic of Macedonia.-Goce Naumov.-5. Houses in the archaeology of the Tripillia – Cucuteni groups.- Natalia Burdo, Mikhail Videiko, John Chapman and Bisserka Gaydarska.-6. Tracing the beginning of sedentary life in the Carpathian Basin. The formation of the LBK house.-Eszter Bánffy 7. Of time and the house: the Early Neolithic communities of the Paris Basin and their domestic architecture Penny Bickle.-8. Change and continuity in the Danubian longhouses of lowland Poland Joanna Pyzel.- 9. Living by the lake. Domestic architecture in the Alpine foreland Daniela Hofmann.-10. Home is when you build it. Characteristics of building and occupation in the Lower Rhine Area wetlands (5500-2500 cal BC) Luc Amkreutz.-11. The end of the longhouse Jonathan Last.-12. Early Neolithic habitation structures in Britain and Ireland: a matter of circumstance and context.- Alison Sheridan 13. Tides of change? The house through the Irish Neolithic.-Jessica Smyth 14. Lost and found. Houses in the Neolithic of southern Scandinavia Lars Larsson and Kristian Brink. [...]

Fields of interest
Archaeology; Anthropology

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

2013. VIII, 406 p. 85 illus., 22 illus. in color. (One World Archaeology) Softcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-1-4939-2157-7

S. Hubert, Deutsches Jugendinstitut e.V., München, Germany

The Impact of Religiosity on Fertility

A Comparative Analysis of France, Hungary, Norway, and Germany

The work investigates the impact of religiosity of women and men on their completed fertility in an international comparison considering a long time period. Sandra Hubert aims at uncovering all mechanisms through which religiosity and religious institutions can affect fertility. Hence, both the micro- and the macro-level of each country are explicitly integrated, and theoretically as well as empirically dealt with. The selection of differing countries rests upon the expectation that religiosity influences fertility decisions independently of the institutional context, social norms, state church-relations, and the national degree of religious vitality. These factors are intensively compared with each other at the country level. At the micro-level the impact of religiosity on fertility is tested by means of regressions and based on the Generations and Gender Survey. Results depend on gender, country, the diverse religious affiliations, and more.

Feature
► Sozialwissenschaftliche Studie

Contents
Demographic patterns in comparative perspective.- Religion and religiosity.- How religious affiliation and religiosity affect fertility.- The national frame and individual characteristics.- Empirical analysis in comparative perspective.

Fields of interest
Demography; Culture - Religion

Target groups
Research

Product category
Monograph

J. H. Jameson, Southeast Archaeological Center National Park Service, TALLAHASSEE, FL, USA;
J. Eogan, National Roads Authority, Dublin, Ireland (Eds)

Training and Practice for Modern Day Archaeologists

In recent years, an important and encouraging development in the practice of archaeology and historical preservation has been the markedly increased number of collaborations among archaeologists, educators, preservation planners, and government managers to explore new approaches to archaeological and heritage education and training to accommodate globalization and the realities of the 21st century worldwide. But what is the collective experience of archaeologists and cultural heritage specialists in these arenas? Should we be encouraged, or discouraged, by national and international trends? In an attempt to answer these questions, this volume examines and gives representational examples of the respective approaches and roles of government, universities, and the private sector in meeting the educational/training needs and challenges of practicing archaeologists today.

Features
► Case study examples come from Western and Eastern Europe, the United States, Canada, former Soviet Republics, Africa, Asia, the Mediterranean, and Australia. ► Looks at the discrepancy between training and practice for modern-day archaeologists ► Explores how archaeologists function and integrate in the developing world

Fields of interest
Archaeology; Cultural Heritage

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

F. Kumagai, Kyorin University, Tokyo, Japan

Family Issues on Marriage, Divorce, and Older Adults in Japan

With Special Attention to Regional Variations

Contents
List of Figures.- List of Tables.- Preface.- Chapter 1: Introduction: A New View on Changes in Japanese Families.- 1.1: Two Theoretical Frameworks for the Study of Family Issues in Japan.- 1.2: A Dual Structural Model of the Japanese Family-The Modified Stem.- Family.- 1.3: Regional Variations by Prefecture: Haihan Chiken (Dissolution of Domains and Establishment of Prefectures).-1.4: Data and Methods.- 1.4.1: Data.- 1.4.2: Analytic Strategy.- 1.5: Family Issues to Be Discussed.- References.- Chapter 2: Demographic Changes in Japan.- 2.1: Introduction.- 2.2: Changes in the Japanese Household Structure — the Nuclear Family.- 2.3: Changes in the Three-Generation Family.- 2.4: Family Size: Changes and Projections for the Average Number of Persons in a Household by Prefecture.- 2.5: Demographics of the Japanese Elderly.- 2.5.1: The Graying of Japan — Population Aging and Fertility Decline.- 2.5.2: Declining Birth Rates and Total Fertility Rates (TFR).- 2.5.3: The Baby Boomer Generations.- 2.5.4: The Longevity Revolution: Rising Life Expectancy.- 2.5.5: Aging of the Elderly Population.- 2.5.6: Marital Status of Japanese Elderly.- 2.5.7: Japanese Elderly and Family Relations.- 2.6: Living Arrangements of the Elderly.- 2.6.1: With Family.- 2.6.2: Problems Associated with Coresidency Living Arrangements.- 2.7: Regional Variations of the Japanese Elderly.- 2.8: Conclusion.- References.- Chapter: 3: History of Courtship and Marriage in Japan.- 3.1: Historical Perspective. [...]

Fields of interest
Sociology of Familiy, Youth and Aging; Demography; Anthropology

Target groups
Research

Product category
Monograph

Available

2015. XIV, 283 p. 13 illus. Softcover
► ***€ (D) 49,99 | € (A) 51,39 | sFr 62,50**
► **€ 46,72 | £42.99**
ISBN 978-3-658-07007-6

Due November 2014

2013. XXIV, 277 p. 60 illus., 24 illus. in color. (One World Archaeology) Softcover
► ***€ (D) 64,19 | € (A) 65,99 | sFr 80,00**
► **€ 59,99 | £53.99**
ISBN 978-1-4939-2120-1

Due November 2014

2015. X, 219 p. 54 illus., 31 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-981-287-184-8

A. Lenger, Albert-Ludwig-University of Freiburg, Freiburg, , Germany; **F. Schumacher,** Albert-Ludwigs-University of Freiburg, Freiburg, Germany (Eds)

Understanding the Dynamics of Global Inequality

Social Exclusion, Power Shift, and Structural Changes

Despite the fact that the globalization process tends to reinforce existing inequality structures and generate new areas of inequality on multiple levels, systematic analyses on this very important field remain scarce. Hence, this book approaches the complex question of inequality not only from different regional perspectives, covering Africa, Asia, Europe, Latin and Northern America, but also from different disciplinary perspectives, namely cultural anthropology, economics, ethnology, geography, international relations, sociology, and political sciences. The contributions are subdivided into three essential fields of research: Part I analyzes the socio-economic dimension of global exclusion, highlighting in particular the impacts of internationalization and globalization processes on national social structures against the background of theoretical concepts of social inequality. Part II addresses the political dimension of global inequalities. Since the decline of the Soviet Union new regional powers like Brazil, China, India and South Africa have emerged, creating power shifts in international relations that are the primary focus of the second part.

Contents
Preface.- Part I: Introduction.- Part II: Dynamics of Global Exclusion.- Part III: Global Power Shift.- Part IV: Global Structures, Networks and Inequality.

Fields of interest
International Relations; International Economics; Social Structure, Social Inequality

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. X, 327 p. 8 illus., 6 illus. in color. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-3-662-44765-9

T. Liefaard, Utrecht University, Amstelveen, The Netherlands; **J. E. Doek,** Free University Amsterdam, Amsterdam, The Netherlands (Eds)

Litigating the Rights of the Child

The UN Convention on the Rights of the Child in Domestic and International Jurisprudence

Features
► First academic volume to address how the UN Convention on the Rights of the Child (CRC) has been used in national and international courts ► Useful reference for case law and contributes to the implementation and enforcement of children's rights ► Presents a first step towards more domestic and international/regional studies on the role of the CRC in litigation and its impact on the realization of the rights of children at the local level

Contents
Acknowledgements.- List of Acronyms.- About the Authors.- Chapter 1: Litigating the Rights of the Child: Taking Stock after 25 Years of the Child: Taking Stock after 25 Years of the CRC.- Chapter 2: South Africa.- Chapter 3: India.- Chapter 4.- England and Wales.- Chapter 5: United States.- Chapter 6: The Netherlands,- Chapter 7: Belgium.- Chapter 8: France.- Chapter 9: Serbia.- Chapter 10: Algeria.- Chapter 11.- CRC in litigation under the ICCPR and CEDAW.- Chapter 12.- CRC in litigation under the ECHR.- Chapter 13.- The use of the CRC in litigation under EU law.- Chapter 14: The CRC as a litigation tool before the Inter-American System of Protection of Human Rights.- Chapter 15: Children's Rights Litigation in the African Religion: Lesson from the Communications Procedure under the ACRWC.- References.

Fields of interest
Quality of Life Research; Human Rights; Maternal and Child Health

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. XXII, 265 p. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-94-017-9444-2

G. Lieten, Heemstede, The Netherlands; **T. Strehl,** Amsterdam, The Netherlands

Child Street Life

An inside view of hazards and expectations of street children in Peru

This brief studies the phenomenon of street children in two cities in Peru. It looks at some of the conceptual issues and, after analysing why children are in the street and what behaviour and which aspirations they exhibit, deals with the policy issues and lessons to be learned. This brief investigates when and why the transition from children on the street (street-working children) to children of the street (street living children) takes place and elucidates how they survive. It explains the fluidity and the risks involved in any type of child street life.

Features
► Presents an analysis why children are in the street and what behaviour and which aspirations they exhibit ► Investigates when and why the transition from street-working children to street living children takes place ► Explains the fluidity and the risks involved in any type of child street life

Contents
List of Tables.- 1 Victims and agency.- 2 Research and overview.- 3 Landing in the streets: a multiplicity of factors.- 4 Settling down in the street.- 5 Street child interventions and policies.- Conclusions and recommendations.- References.

Fields of interest
Childhood, Adolescence and Society; Human Rights; Quality of Life Research

Target groups
Research

Product category
Monograph

Due November 2014

2015. VI, 76 p. (SpringerBriefs in Well-Being and Quality of Life Research) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11721-8

D. L. Martin, R. P. Harrod, University of Nevada, Las Vegas, NV, USA; **V. R. Pérez,** University of Massachusetts Dept. Anthropology, Amherst, MA, USA

Bioarchaeology

An Integrated Approach to Working with Human Remains

Bioarchaeology is the analysis of human remains within an interpretative framework that includes contextual information. This comprehensive and much-needed manual provides both a starting point and a reference for archaeologists, bioarchaeologists and others working in this integrative field.

Features
► Integrates theory, method, and field research to present a comprehensive picture of Bioarchaeology as a field ► Addresses ethical concerns and NAGPRA in a straightforward and clear manner ► Demonstrates Bioarchaeological methods from the field site to the lab, to data interpretation

Contents
History and Current State of Bioarchaeology.- Ethics and Research that Matters.- What Integration Means.- Taphonomic Signatures.- Burial Pratices and Mortuary Ritual.- Excavation Techniques.- Demography and Disease.- Reconstruction of Diet and Nutrition.- Reconstucting Ancestry, Migration, and Relatedness.- Osteobiography.- Sex, Organization, and Stratification.- Trauma and Violence.- Body Modifications and Ornamentation.- Behavior, Ritual, and Patterned Complexity.- Process and Population.

Fields of interest
Archaeology; Biological Techniques; Anthropology

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

2013. XVII, 262 p. 30 illus., 10 illus. in color. (Manuals in Archaeological Method, Theory and Technique)
Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-1-4939-2119-5

K. Ramakrishna, S. Rajaratnam School of International Studies, Nanyang Technological University, Singapore, Singapore

Islamist Terrorism and Militancy in Indonesia

The Power of the Manichean Mindset

Contents
Acknowledgements.- Chapter 1: Is Ideology the 'Root' of Islamist Terrorism in Indonesia?.- 1.1: An Encounter with a Terrorist – And an Epiphany.- 1.2: The Overall Argument at a Glance.- 1.3: The Three Limitations of Extant Scholarship on Islamist Militancy in Indonesia.- 1.4: Research Note.- 1.5: The Plan of the Book.- References.- Part 1: The Human Nature Triad Unpacked – The Manichean Mindset, Embattled Religiosity and Violent Fundamentalism.- Chapter 2: The Origins of the 'Manichean Mindset'.- 2.1: Introduction.- 2.2: The Great Human Nature Debate.- 2.3: Evolutionary Psychology and our Ancestral Shadow.- 2.4: Darwin, Individual Selection and the Thorny Issue of Cooperation.- 2.5: The Rise of Human 'Groupishness'.- 2.6: Social Categorization, Group Selection and the Uncomfortable Logic of Between-Group Competition.- 2.7: Binary Oppositions, the Human Need for Control and the 'Group Tent'.- 2.8: The Manichean Mindset Deconstructed.- 2.9: Conclusion.- References.- Chapter 3: The Embattled Religiosity of Religious Fundamentalism.- 3.1: Introduction.- 3.2: The Religiosity Instinct and the Cultural Artefact of Religion.- 3.3: Religion as an Evolutionary By-Product, Part I: The Pattern-Seeking, Storytelling, Mythmaking Individual.- 3.4: Religion as an Evolutionary By-Product, Part II: The Hyper-Active Agency Detection Device.- 3.5: Religion as an Evolutionary Adaptation for the Group: Beyond Kin and Direct Reciprocity.- 3.6: Enter the Meme. [...]

Fields of interest
International Relations; Comparative Politics; Anthropology

Target groups
Research

Product category
Monograph

Due November 2014

2015. VII, 281 p. Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-981-287-193-0

J. Rojek, University of Texas at El Paso, El Paso, TX, USA; **P. Martin,** Queensland Police Service, Brisbane, QLD, Australia; **G. P. Alpert,** University of South Carolina, Columbia, SC, USA

Developing and Maintaining Police-Researcher Partnerships to Facilitate Research Use

A Comparative Analysis

This Brief discusses methods to develop and maintain police – researcher partnerships. First, the authors provide information that will be useful to police managers and researchers who are interested in creating and maintaining partnerships to conduct research, work together to improve policing and help others understand the linkages between the two groups. Then, more specifically, they describe how police managers consider and utilize research in policing and criminal justice and its findings from a management perspective in both the United States and Australia. While both countries experience similar issues of trust, acceptance, utility, and accountability between researchers and practitioners, the experiences in the countries differ. In the United States with 17,000 agencies, the use of research findings by police agencies requires understanding, diffusion and acceptance.

Features
► Presents practical solutions for developing and applying police research to practice ► Provides international case studies for comparisons amongst a variety of justice systems

Contents
Introduction.- Brief Review of Research Highlights.- Examples of successful and unsuccessful translation.- Final thoughts and conclusion.

Fields of interest
Criminology & Criminal Justice; Organizational Studies, Economic Sociology

Target groups
Research

Product category
Brief

Due October 2014

2015. XII, 83 p. 2 illus. (SpringerBriefs in Criminology / SpringerBriefs in Translational Criminology)
Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-1-4939-2055-6

B. Russett, Yale University, New Haven, CT, USA

Karl W. Deutsch: Pioneer in the Theory of International Relations

This book celebrates the continuing importance of a world-class leader in the theory and scientific analysis of international relations and comparative politics. Topics on which Karl Deutsch wrote prolifically included nationalism, social communication, European integration, cybernetics, war & peace, arms control, social cybernetics, general systems analysis, and global modeling. He had a deep understanding of European political and intellectual history, experienced the violence induced by nationalism in pre-WWII Europe, and in 1938 fled Czechoslovakia for the United States following Hitler's takeover of the Sudetenland. Subsequently he pioneered the development and analysis of large-scale political and social data across nations and over time. He became a powerful global proponent of widespread access to this data and its public scientific evaluation. He was a world citizen, and very likely the most distinguished social scientist on international relations of his generation.

Feature
► Biography and benchmark papers of one of the most distinguished social scientists in the 20th century

Contents
Brief Introduction on Deutsch as Pioneer.- Substantial biographical and bibliographical essay with selected photos.- Comprehensive bibliography of his work and achievements.- Selected key innovative scientific texts of the pioneer.

Fields of interest
International Relations; Comparative Politics; Methodology of the Social Sciences

Target groups
Research

Product category
Brief

Due December 2014

2014. 150 p. 5 illus., 2 illus. in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 25) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-3-319-02909-2

M. B. Schiffer, University of Arizona Department of Anthropology, Tucson, AZ, USA

The Archaeology of Science

Studying the Creation of Useful Knowledge

This manual pulls together—and illustrates with interesting case studies—the variety of specialized and generalized archaeological research strategies that yield new insights into science. Throughout the book there are templates, consisting of questions, to help readers visualize and design their own projects. The manual seeks to be as general as possible, applicable to any society, and so science is defined as the creation of useful knowledge—the kinds of knowledge that enable people to make predictions. The chapters in Part I discuss the scope of the archaeology of science and furnish a conceptual foundation for the remainder of the book.

Features
► Pulls together various archaeological research strategies that yield new insights into science ► Contains templates, consisting of questions, to help readers visualize and design their own projects ► New insights are offered into the relationship of science and technology

Contents
PART I.- 1 Introduction.-2 Science: A Behavioral Perspective.-3 The Varieties of Scientific Knowledge.-PART II.- 4 Experimental Archaeology.- 5 Ethnoarchaeology.-6 Archaeometry.-PART III .- 7 The Artifacts of Modern and Early Modern Science.-8 Thomas Edison's Science.-9 Colonization and Exploration.-10 Scientific Expeditions to Antarctica.-11 The U.S. Nuclear Establishment.-12 Archaeology of the Space Age.-13 Discovery Processes.

Fields of interest
Archaeology; Anthropology; Philosophy of Science

Target groups
Graduate

Product category
Graduate/Advanced undergraduate textbook

Due October 2014

2013. XVI, 204 p. 24 illus., 2 illus. in color. (Manuals in Archaeological Method, Theory and Technique) Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-3-319-11868-0

Y. Senda, Tohoku Gakuin University, Sendai,, Japan

Childbearing and Careers of Japanese Women Born in the 1960s

This book provides the keys to understanding the trajectory that Japanese society has followed toward its lowest-low fertility since the 1980s. The characteristics of the life course of women born in the 1960s, who were the first cohort to enter that trajectory, are explored by using both qualitative and quantitative data analyses. Among the many books explaining the decline in fertility, this book is unique in four ways.

Features
► Blends qualitative and quantitative methods to show how individuals' choices to balance work and life careers unintentionally and aggregately resulted in a low-fertility trend ► Targets the 1960s cohort's experience of the rapid changes in work conditions and social norms, which caused late marriage and postponed childbirth ► Provides a thorough reference to the social conditions of fertility decline in Japan: law and policy changes, countermeasures by companies, and changes in women's lives

Contents
Introduction.- 1 Trends of Demographic and Work-related Indexes in Japan after WWII.- 2 Birth Cohort of 1960s :Its Unique Life Course in the Rapid Changes of Socioeconomic Conditions.- 3 Women's Subjective Life Course of 1960s Cohort I :Early Career and Family Formation.- 4 Women's Subjective Life Course of 1960s Cohort II : Middle Career and Family Formation.- 5 Fertility Decline as an Unintended Consequence of Individuals' efforts toward Work-life Balance. – Conclusion.

Fields of interest
Demography; Family; Gender Studies

Target groups
Research

Product category
Brief

Due February 2015

2015. VI, 94 p. 40 illus. (SpringerBriefs in Population Studies / Population Studies of Japan) Softcover
► **approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **approx. € 49,99 | £44.99**
ISBN 978-4-431-55065-5

A. Bockel, Live & Let Tri s.a.r.l, Munsbach, Luxembourg

The Golden Rule in Sports

Investing in the Conditions of Cooperation for a Mutual Advantage in Sports Competitions

Elite level sport lends itself to a highly competitive environment that encourages players to seek a competitive advantage in order to win. Since competition is an inherent condition that is also considered desirable in this setting, it may at first glance seem as if cooperation does not have any room in elite level sports. Sustainable cooperation can be mutually advantageous for players, but it only has a chance of coming into fruition if it is also in line with individual players' self-interests. In order for morality and self-interests to align with one another, investment in the conditions is required. Alicia Bockel analyzes ways that players can invest in the conditions of sustainable cooperation for a mutual advantage despite a highly competitive sports environment.

Feature
► Study in the field of social sciences

Contents
Cooperation for Mutual Advantage.- Conditions of Cooperation.- Investment in the Conditions.

Fields of interest
Ethics; Sport

Target groups
Research

Product category
Monograph

Available

2015. XVI, 189 p. 17 illus. Softcover
► ***€ (D) 39,99 | € (A) 41,11 | sFr 50,00**
► **€ 37,37 | £33.99**
ISBN 978-3-658-07027-4

R. Francescotti, San Diego State University, San Diego, CA, USA

Physicalism and the Mind

This book addresses a tightly knit cluster of questions in the philosophy of mind. There is the question: Are mental properties identical with physical properties? An affirmative answer would seem to secure the truth of physicalism regarding the mind, i.e., the belief that all mental phenomena obtain solely in virtue of physical phenomena. If the answer is negative, then the question arises: Can this solely in virtue of relation be understood as some kind of dependence short of identity? And answering this requires answering two further questions. Exactly what sort of dependence on the physical does physicalism require, and what is needed for a property or phenomenon to qualify as physical? It is argued that multiple realizability still provides irresistible proof (especially with the possibility of immaterial realizers) that mental properties are not identical with any properties of physics, chemistry, or biology. After refuting various attempts to formulate nonreductive physicalism with the notion of realization, a new definition of physicalism is offered.

Features
► Addresses a tightly knit cluster of significant questions in the metaphysics of mind ► Critiques accounts of realization by Melynk, Pereboom, and Shoemaker ► Describes a sense in which mental properties qualify as physical even if not identical with properties of the natural sciences

Contents
Chapter 1. Multiple Realizability.- Chapter 2. Supervenience and Physicalism.- Chapter 3. Realization and Constitution.- Chapter 4. Defining Physicalism.

Fields of interest
Philosophy of Mind; Philosophy of Science; History and Philosophical Foundations of Physics

Target groups
Research

Product category
Brief

Due September 2014

2015. X, 90 p. (SpringerBriefs in Philosophy)
Softcover
► ***€ (D) 53,49 | € (A) 54,99 | sFr 67,00**
► **€ 49,99 | £44.99**
ISBN 978-94-017-9450-3

C. F. Gethmann, Universität Siegen, Siegen, Germany; **M. Carrier,** Universität Bielefeld, Bielefeld, Germany; **G. Hanekamp,** Deutsche Telekom Stiftung, Bonn, Germany; **M. Kaiser,** University Of Bergen, Bergen, Norway; **G. Kamp, S. Lingner,** Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany; **M. Quante,** Universität Münster, Münster, Germany; **F. Thiele,** Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany

Interdisciplinary Research and Trans-disciplinary Validity Claims

Interdisciplinarity has seemingly become a paradigm for modern and meaningful research. Clearly, the interdisciplinary modus of deliberation enables to unfold relevant but quite different disciplinary perspectives to the reflection of broader scientific questions or societal problems. However, whether the comprehensive results of interdisciplinary reflection prove to be valid or to be acceptable in trans-disciplinary terms depends upon certain preconditions, which have to be fulfilled for securing scientific quality and social trust in advisory contexts. The present book is written by experts and practitioners of interdisciplinary research and policy advice.

Features
► Analyses topical and methodological approaches towards interdisciplinarity ► Written by experts and practitioners of interdisciplinary research ► Conclusions address relevant research and education politics

Contents
Introduction.- Science in Society.- Knowing and Acting.- Trans-disciplinary Deliberation.- Conclusions/Recommandations.

Fields of interest
Philosophy of Science; R & D/Technology Policy; Knowledge - Discourse

Target groups
Research

Product category
Monograph

Due October 2014

2015. XVI, 195 p. 6 illus., 4 illus. in color. (Ethics of Science and Technology Assessment, Volume 43)
Hardcover
► ***€ (D) 80,24 | € (A) 82,49 | sFr 100,00**
► **€ 74,99 | £67.99**
ISBN 978-3-319-11399-9

H. Pedersen, Indiana University of Pennsylvania, Indiana, PA, USA; **M. Altman,** Florida Gulf Coast University, Fort Myers, USA (Eds)

Horizons of Authenticity in Phenomenology, Existentialism, and Moral Psychology

Essays in Honor of Charles Guignon

Contents

1: Introduction, H. Pedersen, M. Altman.- Part I Authenticity and Subjectivity.- 2: Can We Drop the Subject?: Heidegger, Selfhood, and the History of a Modern Word, L. J. Hatab.- 3: Knowing Thyself in a Contemporary Context: A Fresh Look at Heideggerian Authenticity, S. Burgess, C. Rentmeester.- 4: From Extremity to Releasement: Place, Authenticity, and the Self, J. Malpas.- 5: Guignon on Self-Surrender and Homelessness in Dostoevsky and Heidegger, K. Aho.- 6: Authenticity and Duty in Do Androids Dream of Electric Sheep? M.E. Zimmerman.- Part II Phenomenology Reflection on the Sciences and Technology.- 7: Phenomenology of Value and the Value of Phenomenology, B. Crowe.- 8: Heidegger and Dilthey: Language, History, and Hermeneutics, E.S. Nelson.- 9: A Phenomenological Reformulation of Psychology: Resources, Progress, and Prospects, B.J. Fowers.- 10: Philosophical Hermeneutics and the One and the Many, F.C. Richardson, R.C. Bishop.- 11: The Phenomenological Elements of Addiction: A Heideggerian Perspective, F. Schalow.- 12: A Heideggerian Critique of Cyberbeing, Richard Polt.- Part III Phenomenological Considerations of Death and Ethics.- 13: Death in Being and Time: Getting Our Stories Straight, A. Buben. [...]

Fields of interest

Phenomenology; Cognitive Psychology; Interdisciplinary Studies

Target groups

Research

Product category

Contributed volume

Due November 2014

2015. X, 408 p. 4 illus. in color. (Contributions to Phenomenology, Volume 74) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-94-017-9441-1

B. Puri, University Of Delhi, Delhi, India

The Tagore-Gandhi Debate on Matters of Truth and Untruth

Between 1915 and 1941, Tagore (1861-1941) and Gandhi (1869-1948) differed and argued about many things of personal, national, and international significance---satyagraha, non-cooperation, the boycott and burning of foreign cloth, the efficacy of fasting as a means of resistance and Gandhi's mantra connecting "swaraj" and "charkha". The author tracks the development of this dialogue and argues that the debate was about more fundamental issues, such as the nature of truth and swaraj/freedom and the possibilities of untruth that Tagore saw in Gandhi's movements for truth and freedom.

Features

► The only monograph on the Tagore-Gandhi debate ► Provides a philosophical re-interpretation of Tagore's positions on nationalism and cosmopolitanism ► Gives new insights on Gandhi's central moral and political concepts ► Examines Akeel Bilgrami's reading of Gandhi's truth ► Discusses the differences between Tagore and Gandhi's understandings of swaraj/freedom

Contents

Chapter 1: The Tagore-- Gandhi Debate: An Account of the Central Issues.- Chapter 2: Of Mantras and Unquestioned Creeds: Re-constructing Gandhi's Moral Insights.- Chapter 3: Gandhi's Truth: Debate, Criticism, and the Possibilities of Closure in Moral Arguments.- Chapter 4: Tagore: On the possibilities of untruth and moral tyranny.- Chapter 5: Understanding Swaraj: Tagore and Gandhi.- Chapter 6: Gandhi and Tagore: Life in an Enchanted Cosmos.

Fields of interest

Philosophy (general); Regional and Cultural Studies; Migration

Target groups

Graduate

Product category

Monograph

Due October 2014

2015. XXXIII, 179 p. 1 illus. (Sophia Studies in Cross-cultural Philosophy of Traditions and Cultures, Volume 9) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-81-322-2115-9

R. J. Shephard, University of Toronto, Brackendale, BC, Canada

An Illustrated History of Health and Fitness, from Pre-History to our Post-Modern World

Contents

Chapter 1: Health and Fitness in Prehistory, Including Inferences from the Current Lifestyle of Indigenous Populations.- Chapter 2: Examples of Early City Life from Ancient Assyria, Babylon, Egypt, Israel, India and China: Health as a Gift of the Gods.- Chapter 3: Legacies of the Classical Era: Minoa, Greece and Rome; a Recognition of Material Causes of Poor Health and Fitness.- Chapter 4: The Middle Ages: Monasteries, Medical Schools and the Dawn of State Health Care.- Chapter 5: The Renaissance: The Dawn of Scientific Enquiry into Health and Fitness.- Chapter 6: The Enlightenment: The Impact of Reason and Religion upon Health and Fitness in a Period of Urban Growth and Industrialization.- Chapter 7: The Victorian Era: The Birth of Scientific Societies and Blossoming of Public Health.- Chapter 8: The Modern Era: Blossoming of the Olympic Movement and the Conquest of Acute Disease.- Chapter 9: The Post-Modern Era: Chronic Disease and the Onslaught upon a Sedentary Lifestyle.- Chapter 10: Future Directions in Health and Fitness.

Fields of interest

History of Science; History of Medicine; Sport Science

Target groups

Research

Product category

Monograph

Due November 2014

2015. Approx. 800 p. (Studies in History and Philosophy of Science, Volume 39) Hardcover
► ***€ (D) 245,03 | € (A) 251,90 | sFr 305,00**
► **€ 229,00 | £206.50**
ISBN 978-3-319-11670-9

H. Wansing, Bochum, Germany (Ed)

Dag Prawitz on Proofs and Meaning

Features
► First volume to give a comprehensive account of Dag Prawitz's seminal contributions to proof theory and proof-theoretic semantics ► Offers original, up-to-date contributions by world-wide leading experts in structural proof theory and proof-theoretic semantics ► Includes topic of proofs and meaning approached from various disciplines in which logic is at home: philosophy, mathematics, and computer science

Contents
Prawitz, proofs, and meaning; Wansing, Heinrich.- A short scientific autobiography; Prawitz, Dag.- Explaining deductive inference; Prawitz, Dag.- Necessity of Thought; Cozzo, Cesare.- On the Motives for Proof Theory; Detlefsen, Michael.- Inferential Semantics; Došen, Kosta.- Cut elimination, substitution and normalization; Dyckhoff, Roy.- Inversion principles and introduction rules; Milne, Peter.- Intuitionistic Existential Instantiation and Epsilon Symbol; Mints, Grigori.- Meaning in Use; Negri, Sara and von Plato, Jan.- Fusing Quantifiers and Connectives: Is Intuitionistic Logic Different?; Pagin, Peter.- On constructive fragments of Classical Logic; Pereira; Luiz Carlos and Haeusler, Edward Hermann.- General-Elimination Harmony and Higher-Level Rules; Read, Stephen.- Hypothesis-discharging rules in atomic bases; Sandqvist, Tor.- Harmony in proof-theoretic semantics: A reductive analysis; Schroeder-Heister, Peter.- First-order Logic without bound variables: Compositional Semantics; Tait, William W.- On Gentzen's Structural Completeness Proof; Tennant, Neil.- A Notion of C-Justification for Empirical Statements; Usberti, Gabriele.

Fields of interest
Logic; Mathematical Logic and Foundations; Logics and Meanings of Programs

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. XVIII, 502 p. 6 illus. (Outstanding Contributions to Logic, Volume 7) Hardcover
► ***€ (D) 139,09 | € (A) 142,99 | sFr 173,50**
► **€ 129,99 | £117.00**
ISBN 978-3-319-11040-0

A. Welchman, University of Texas at San Antonio, San Antonio, TX, USA (Ed)

Politics of Religion/Religions of Politics

Features
► First collection of articles to center around the work of Simon Critchley ► Opens up a productive rather than a reductive interaction between politics and religion, appealing to readers who want to hear something new and positive about religion and politics ► Contributions are from a Continental Philosophy perspective, attractive to readers familiar with this tradition

Contents
Introduction, A. Welchman.- An Aphoristic Memoir: On the Advantages and Disadvantages of Philosophy for Life, A-M. Bowery.- Rethinking Disenchantment and Poesis: Interpreting the Resistance to the Political in Critchley's Call for Re-Enchantment, T. Chante.- How Much Does That Weigh? Lévinas and the Possibility of Human Rights, J. Stauffer.- To Die Laughing: On Irony and Humor in Limit Situations, C. Bradatan.- You are not your own: On the Nature of Faith, S. Critchley.- Simon Critchley's Problem of Politics and Hannah Arendt's Idealism for the USA, R. Champagne.- Contested States: Capital, Resistance and Power, P. Lewis.- Exposures and Projections: Simon Critchley's Ethics of Appearances, D. Panagia.- Cosmology, Anthropology and Politics: Reflections on Rousseau and 'Mystical Anarchism', P. Quadrio.- Protest Politics and Para-Ontology, A. Welchman.- The Sewing Circles of Geneva: Mores, Morals and Moralizing in Political Life, A. O'Byrne.

Fields of interest
Philosophy of Religion; Religious Studies

Target groups
Research

Product category
Contributed volume

Due October 2014

2015. X, 209 p. (Sophia Studies in Cross-cultural Philosophy of Traditions and Cultures, Volume 8) Hardcover
► ***€ (D) 106,99 | € (A) 109,99 | sFr 133,50**
► **€ 99,99 | £90.00**
ISBN 978-94-017-9447-3

A. Balahur-Dobrescu, European Commision Joint Research Centre, Ispra, Italy; **M. Taboada,** Simon Fraser University, Burnaby, BC, Canada; **B. W. Schuller,** TU München LS für Mensch-Maschine-Kommunikation, München, Germany

Computational Methods for Affect Detection from Natural Language

A broad overview of natural language processing in affective computing is given by this title. Its goal is to familiarize the reader with current approaches in affective computing as well as the most relevant concepts related to this field (affect, sentiment, subjectivity and others).

Features
► Offers a broad overview of natural language processing in affective computing ► Familiarizes readers with current approaches in affective computing with explanations of theory as well as practical examples ► Introduces and defines the concepts employed in the computational treatment of affect from text, from an inter-disciplinary, unified perspective ► A timely topic for the age of social media

Contents
Affect Computation from Text – Main Concepts and Tasks.- Subjectivity Analysis in Natural Language.- Sentiment Analysis.- Emotion Detection from Text.- Dealing with Multilinguality in Affect Computation from Text.- Applications of Affect Computation – Opinion Trend and Social Media Analysis.- Current Challenges and Envisaged Developments in Affect Computation from Text.

Fields of interest
Computational Linguistics; Language Translation and Linguistics; Artificial Intelligence (incl. Robotics)

Target groups
Research

Product category
Monograph

M. S. Schmid, University of Essex, Colchester, UK; **S. M. Berends, C. Bergmann,** University of Groningen, Groningen, The Netherlands; **S. M. Brouwer,** University of Utrecht, Utrecht, The Netherlands; **N. Meulman, B. Seton, S. Sprenger, L. Stowe,** University of Groningen, Groningen, The Netherlands

Designing Research on Bilingual Development

Behavioral and Neurolinguistic Experiments

This volume offers an in-depth description and discussion of research design for a large-scale investigation of bilingual development.

Features
► Offers an in-depth description and discussion of research design for bilingual development ► Introduces and justifies a range of theoretical and methodological innovation ► Discusses gathering and analyzing large datasets from across a range of languages, locations, and measurements, and proposes practical solutions

Contents
Chapter 1. Introduction By Monika S. Schmid.- PART I: BACKGROUND.- Chapter 2. Cognitive and Personal Background Variables By Nienke Meulman & Monika S. Schmid.- PART II: BEHAVIOURAL DATA & FREE SPEECH.- Chapter 3. Proficiency By Christopher Bergmann & Monika S. Schmid.- Chapter 4. Free Speech By Christopher Bergmann.- PART III: COGNITIVE AND NEUROIMAGING EXPERIMENTAL MEASURES.- Chapter 5. The Multi-lab Challenge By Bregte J. Seton.- Chapter 6. Eye-tracking By Sanne M. Berends, Simone A. Sprenger and Susanne Brouwer.- Chapter 7. EEG By Nienke Meulman, Bregte J. Seton and Laurie A. Stowe.

Fields of interest
Psycholinguistics; Language Education; Sociolinguistics

Target groups
Research

Product category
Brief

E. Waniek-Klimczak, University of Łódź, Łódź, Poland; **M. Pawlak,** Adam Mickiewicz University, Kalisz, Poland (Eds)

Teaching and Researching the Pronunciation of English

Studies in Honour of Włodzimierz Sobkowiak

The book contains contributions from practitioners and theoreticians who explore the pronunciation of English from various perspectives: phonetic, phonological, psycholinguistic and sociolinguistic. In accordance with the unifying theme of the volume, individual contributions investigate the characteristics of a foreign accent, its production and perception, study the development of methods and techniques in pronunciation teaching, evaluate their use in classroom materials and in the classroom itself, and investigate the conditions for second language learning and teaching from the perspective of learners and teachers. The book offers a unique combination of a scholarly research with practical applications, inspired over the years by the work of Professor Włodzimierz Sobkowiak, who has researched pronunciation teaching and pioneered technology-oriented, corpus-based approaches to the study of English pronunciation in Poland.

Features
► Approaches pronunciation learning and teaching from a variety of theoretical perspectives ► Provides an account of original studies investigating different aspects of pronunciation in a foreign language ► Successfully links theoretical positions, empirical evidence and classroom practice

Fields of interest
Applied Linguistics; Language Education

Target groups
Research

Product category
Monograph

Due March 2015

2015. 250 p. (Computational Social Sciences) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-319-00601-7

Due January 2015

2015. Approx. 150 p. (SpringerBriefs in Linguistics) Softcover
► approx. *€ (D) 53,49 | € (A) 54,99 | sFr 67,00
► approx. € 49,99 | £44.99
ISBN 978-3-319-11528-3

Due November 2014

2015. XIII, 212 p. 28 illus., 13 illus. in color. (Second Language Learning and Teaching) Hardcover
► *€ (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-3-319-11091-2

D. Brubaker, Wuhan Textile University, Wuhan, China; **C. Wang,** China Central Academy of Fine Arts, Beijing, China

Jizi and His Art in Contemporary China

Unification

Writing is a complex undertaking especially when the topic is contemporary Chinese art and the search for ways to spiritually enrich attitudes toward life in the present. Jizi's dedication and determination over many decades of painting makes a book such as this possible. With the help of his experiences, writings and conversations, we have assembled here a comprehensive volume of essays, commentaries and reflections. Jizi's images on the theme of the unification of self, nature, others and a larger universe are sources for stimulation, guidance and enlightenment that each reader is invited to examine and appreciate.

Features
► A case study in the contemporary practice of Chinese ink painting ► Resolves not only the history of aesthetics issues but also the concern about authentic art criticism ► Presents a unique perspective on thinking about and understanding ink painting issues

Contents
Introduction Conflicts and Confrontations: The Journey of China's Contemporary Chinese Ink Paintings.- Chapter 1 Questions.- Chapter 2 Who Is Jizi?.- Chapter 3 Paths of Contemporary Chinese Art.- Chapter 4 Philosophy of Chinese Ink Art.- Chapter 5 Spiritual as Mountains and Cosmos.- Chapter 6 Chinese Ink Art and Global Changes.- Appendix.

Field of interest
Arts

Target groups
Research

Product category
Monograph

Due January 2015

2014. Approx. 170 p. 91 illus. in color. (Chinese Contemporary Art Series) Hardcover
► approx. *€ (D) 106,99 | € (A) 109,99 | sFr 133,50
► approx. € 99,99 | £90.00
ISBN 978-3-662-44928-8

E. Yourdon

CEOs at Work

CEOs at Work

In CEOs at Work, noted author Ed Yourdon interviews many of the world's most influential chief executive officers—many of whom have worked through adversity—offering a brand-new companion volume to his highly acclaimed CIOs at Work.

Feature
► With interviews of CEOs from many of the world's most influential companies, you will get a sense of what these companies are doing to automate, integrate and drive their businesses so that they continue to dominate their marketplaces. See how these companies are responding to the trends, financial conditions and regulatory requirements that face today's major corporations. See what they are doing to make their employees more productive and their companies more profitable, and take advantage of opportunities to expand into new markets and increase their share in current markets.

Field of interest
Business/Management Science, general

Target groups
Popular/general

Product category
Professional book

Apress®

Due February 2015

2015. 500 p. Softcover
► ***€ (D) 20,28 | € (A) 20,84 | sFr 25,50**
► **€ 18,95 | £35.50**
ISBN 978-1-4302-4053-2

Beginning Kinect Programming

with the Kinect for Windows v2 SDK

The Kinect is the original and most popular motion sensing input device for computers and game consoles, enabling natural user interaction through gestures and speech. Beginning Kinect Programming is an ideal introduction to developing apps that understand and use these exciting capabilities, ranging from depth sensing and motion tracking to speech recognition, digital art and 3D scanning, with the next generation Kinect for Windows v2 sensor and SDK. The book starts by taking you through fundamentals of Kinect programming as you set up your development environment and build your first working Kinect application. The v2 sensor includes higher definition full color video, better depth image processing and more sophisticated skeleton tracking, all of which you'll be introduced to in guided code walkthroughs for maximum accessibility. Audio processing is next as the author takes you through examples of programming speech recognition with Kinect. Also included is a useful introduction to using C++ alongside your C# code for maximum speed and power in particle interactions. The final chapters of the book dive into some exciting and imaginative ways to interact with your Kinect, featuring digital art, 3D avatar creation for Unity3D, scanning 3D objects with Kinect, and computer vision.

Feature
► Beginner's guide to Kinect version 2, due to be released by Microsoft later this yearWritten by author of popular 'Beginning Kinect Programming with the Microsoft Kinect SDK' published by Apress Feb 2012Takes readers all the way from Kinect basics like skeleton tracking to advanced applications like 3D modelling and scanning

Field of interest
User Interfaces and Human Computer Interaction

Target groups
Popular/general

Product category
Professional book

M. Campbell

Swift Quick Syntax Reference

Swift Quick Syntax Reference is a 120-page condensed code and syntax reference to the new Apple Swift programming language, which is the alternative new programming language alongside Objective-C behind the APIs found in the Apple iOS SDK 8 and Mac OS X Yosemite SDK. It presents the essential Swift syntax in a well-organized format that can be used as a handy reference. You won't find any technical jargon, bloated samples, drawn out history lessons, or witty stories in this book. What you will find is a language reference that is concise, to the point and highly accessible. The book is packed with useful information and is a must-have for any Swift programmer. In the Swift Quick Syntax Reference, you will find a concise reference to the Swift language syntax using the new Playgrounds Playgrounds lets you type a line of code and the result appears immediately. This reference is small and handy and ideal for taking with you to your appointments.

Feature
► Aims to be one of the first pocket code references on the new Swift programming language from Apple.Aims to be day and date asap after Fall 2014 releases of final Swift and iOS 8 SDK. Matt Campbell has authored several Objective-C and iOS books for Apress and is an iOS app developer. Swift is hot new programming language from Apple.

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

T. Champion

Pro Windows 8 Apps for Business in XAML

Pro Windows 8 Apps for Business in XAML is a book that focuses on creating compelling business applications in the new Windows 8 Modern UI environment, WinRT. Microsoft's Windows 8 operating system represents a major shift in the way applications will be designed and interacted with. This book will navigate the you through the new framework and provide you with the tools necessary to build successful business applications. Starting with an introduction to XAML and creating new Windows 8 applications, this book quickly progresses to the important concepts of application development and how they are addressed in WinRT. While this book can be read from cover to cover, with each chapter building on the previous one, you can also use it as a resource to focus on a particular topic. Pro Windows 8 Apps for Business in XAML demystifies the new WinRT architecture and allows you to quickly get up to speed with creating exciting applications that will function well in a business environment. Be one of the first to bring your business applications to Microsoft's newest platform and stand out from the crowd.

Feature
► One of the first books to be published specifically addressing how Microsoft's newest technology can be applied to the unique demands of a business environment. Provides readers will a clear overview of the frameworks that have carried over from .NET, how they remain the same and how they've changed. Emphasises the new XAML and WinRT architectures to ensure readers are working within Microsoft's best-practice guidelines from the very start.

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

Apress®

Due February 2015

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► ***€ (D) 36,33 | € (A) 37,35 | sFr 45,50**
► **€ 33,95 | £26.50**
ISBN 978-1-4842-0212-8

Apress®

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► **€ 14,95 | £11.50**
ISBN 978-1-4842-0440-5

Apress®

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2014. 500 p. Softcover
► ***€ (D) 47,03 | € (A) 48,35 | sFr 59,00**
► **€ 43,95 | £23.50**
ISBN 978-1-4302-4398-4

R. Cohen, T. Wang

GUI Design for Android Apps

GUI Design for Android Apps is the perfect – and concise – introduction for mobile app developers and designers. Through easy-to-follow tutorials, code samples, and case studies, the book shows the must-know principles for user-interface design for Android apps running on the Intel platform, including smartphones, tablets and embedded devices. This book is jointly developed for individual learning by Intel Software College and China Shanghai JiaoTong University, and is excerpted from Android Application Development for the Intel® Platform.

Fields of interest
User Interfaces and Human Computer Interaction; Software Engineering/Programming and Operating Systems

Target groups
Popular/general

Product category
Professional book

R. Dewson

Beginning SQL Server for Developers

Beginning SQL Server for Developers is the perfect book for developers new to SQL Server and planning to create and deploy applications against Microsoft's market-leading database system for the Windows platform. Now in its fourth edition, the book is enhanced to cover the very latest developments in SQL Server, including the in-memory features that are introduced in SQL Server 2014. Within the book, there are plenty of examples of tasks that developers routinely perform. You'll learn to create tables and indexes, and be introduced to best practices for securing your valuable data. You'll learn design tradeoffs and find out how to make sound decisions resulting in scalable databases and maintainable code. SQL Server 2014 introduces in-memory tables and stored procedures. It's now possible to accelerate applications by creating tables (and their indexes) that reside entirely in memory, and never on disk. These new, in-memory structures differ from caching mechanisms of the past, and make possible the extraordinarily swift execution of certain types of queries such as are used in business intelligence applications. Beginning SQL Server for Developers helps you realize the promises of this new feature set while avoiding pitfalls that can occur when mixing in-memory tables and code with traditional, disk-based tables and code.

Feature
► Fourth edition of a proven successful title for developers learning SQL ServerIntroduces readers to the newly-introduced, in-memory feature setIncludes content to appeal to client-side as well as server-side programmers

Fields of interest
Computer Science, general; Database Management

Target groups
Popular/general

Product category
Professional book

S. Gardner, S. Gardner

Transitioning to Swift

iOS and Mac apps development is an exciting topic these days. Apple now introduces the new Swift programming language makes building iOS and Mac OS apps easier and quicker to build. In this 150-page book, author Scott Gardner starts by pointing out the similarities and differences between traditional Objective-C based development and Swift, discusses playgrounds and takes you through a quick overview of this new programming language and how it leverages the Cocoa or Cocoa touch libraries. He'll get you started quickly in developing apps in this new environment. Written at a brisk pace and in a no-nonsense style, you'll find exactly what you need to understand about what's different in Swift compared to what you know already, and pointers on how to develop solid apps.

Feature
► Aims to be one of the very first Swift books to market. Scott Gardner is a recognized expert among Apple apps developers community.Apple Swift aims to make it easier, quicker to program or build iOS and Mac apps and is "Python-like" language new from Apple.

Fields of interest
Computer Science, general; Programming Languages, Compilers, Interpreters

Target groups
Popular/general

Product category
Professional book

Apress®

Available

2014. XI, 134 p. 65 illus. Softcover
► ***€ (D) 24,56 | € (A) 25,24 | sFr 31,00**
► **€ 22,95 | £17.50**
ISBN 978-1-4842-0383-5

Apress®

Due December 2014

4th ed. 2014. 600 p. Softcover
► ***€ (D) 40,61 | € (A) 41,75 | sFr 51,00**
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ISBN 978-1-4842-0281-4

Apress®

Due October 2014

2014. 150 p. Softcover
► ***€ (D) 24,56 | € (A) 25,24 | sFr 31,00**
► **€ 22,95 | £17.50**
ISBN 978-1-4842-0407-8

G. Hart-Davis

Pro Office for iPad

How to Be Productive with Office for iPad

Microsoft Office for iPad is here! So learn the tips, tricks, and get around the gotchas in Microsoft Office for iPad with Pro Office for iPad. This book shows you how you can become productive quickly by avoiding those annoyances and confusions and slow-me-downs that can happen when you start using Office with your fingers! How is Office for iPad different from Office on your Mac or PC? Will it work without the physical keyboard you're used to using? How do your keyboard shortcuts work? How do I move my files easily between my different versions of Office? Guy Hart-Davis, Office expert and author of over 50 books, is here to show you how to make the most of Office on your iPad. Whether you plan to write a few letters or your dissertation, run your home office away from home, or use your iPad for daily business, Pro Office for iPad will show you how to get the most out of Word, Excel, and other Office apps on your iPad. Enjoy your new freedom and still be as productive as ever with the skills and tecniques you'll learn in Pro Office for iPad.

Features
► Office for iPad promises to be a revolutionary touch application for Office users! ► This is the first book on Office for iPad to focus on Productivity for existing users ► Guy Hart-Davis is the author of over 50 user guides ► Addresses the annoyances of a new touch interface for Office, to help readers get productive again using Office with their fingers for the first time!

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

HBase Recipes

HBase is an open source, non-relational, distributed database modeled after Google's BigTable and written in Java. It is built to deliver a fault tolerant way of storing large quantities of sparse data. HBase features compression, in-memory operation, and Bloom filters on a per-column basis as outlined in the original BigTable paper. Tables in HBase can serve as the input and output for MapReduce jobs run in Hadoop, and may be accessed through the Java API but also through REST, Avro or Thrift gateway APIs. For building a high performance, scalable and dependable application around HBase, it demands a good understanding and practice of its fundamentals and various moving parts.HBase Recipes is a unique book, utilizing a problem-solution format that gives the required practical experience with columnar databases, distributed file systems, distributed HBase, ZooKeeper and HBase, configuring, scaling, monitoring, tuning and examples of building applications with all this knowledge. This book presents pragmatic code 'recipes' for preparing to accomplish particular, specific tasks. All the topics have been arranged in general sections according to subject matter, so you'll be able to quickly get up to speed and become productive on topics and problem solutions of interest to you with virtually no trouble at all.

Feature
► 1. Aims to be first HBase code reference cookbook for book market.2. Retail Trade: Aims to sell between the listed retail trade Sell Likes of 500 and nearly 3,000 units RTD.3. Safari and books as db services: Hadoop highly relevant as of Dec 2013 OPD Safari report. 4. Tied to Hadoop/Big Data/ Cloud Computing eco. It's also open source Java-based tech.

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

S. Liao

Migrating to Swift from Android

In 150 pages, Migrating to Swift from Android gives you – as an experienced native Android app developer – all you need to create native iOS apps using the latest Swift programming language. Starting with preparing your Xcode 6 IDE and introducing just enough iOS application framework fundamentals, you'll understand how to create meaningful Swift applications for iOS 8 immediately. After the short IDE setup guide, this book continues by providing guidance on how to translate your existing Android apps to iOS. Every topic comes with a tutorial project; you'll plan and structure your iOS apps following a typical top-down process using Xcode Storyboards. To implement use cases, common mobile topics are covered, including user interfaces, managing data, and networking with remote services. As you move through Part 2 of this book, you'll create simple and meaningful iOS apps with rich UI components to handle common CRUD operations locally and remotely. Part 3 demonstrates the whole porting process by translating a typical mobile app from Android to iOS 8 from start to finish. When you finish reading Migrating to Swift from Android, you'll be an iOS developer as well as an Android developer. And, you will be fully convinced you can create iOS apps just like you do in Android.

Feature
► Aims to be one of the very first books on Swift and iOS 8. Aims to be day and date with Fall 2014 Final Releases of Swift and iOS 8 SDK.Aims to be one of a kind focused book for those migrating to Swift from Android. iOS and Android are two of the hottest technologies and developer communities out there.

Field of interest
Programming Techniques

Target groups
Popular/general

Product category
Professional book

Apress®

Due November 2014

2014. 400 p. Softcover
► ***€ (D) 32,05 | € (A) 32,94 | sFr 40,00**
► **€ 29,95 | £23.50**
ISBN 978-1-4302-4587-2

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2015. 350 p. Softcover
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► **€ 37,95 | £29.50**
ISBN 978-1-4842-0227-2

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2014. 150 p. Softcover
► ***€ (D) 24,56 | € (A) 25,24 | sFr 31,00**
► **€ 22,95 | £17.50**
ISBN 978-1-4842-0437-5

T. Maaswinkel

Practical Symfony 2

Practical Symfony 2 takes you through the process of building an application using the popular Symfony 2 PHP framework. While reading the book, you will build your own forum application, which makes you use every part of the framework. You will gain a strong understanding of the ins and outs of Symfony and what makes it so powerful. When you have finished the book, you will be able to build any application you want using the Symfony 2 framework. You will learn the basics of building your first Symfony page, using the Twig templating engine to style your page and getting the lowdown on Symfony's Controllers. You will use Doctrine to map a database to your project and learn how to query it for specific information. We also look at the essential topics of testing and security, using PHPUnit to set up tests, and learning how to validate input and to authenticate users. We close the book by looking at internationalization and translating your site to reach the most users.

Feature
► First book published about Symfony 2 development, most web developers will use (some part of) the Symfony 2 framework during their careerUses a developer's approach to learning: Putting theory in practiceThe book is written for developers of any skill level

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

M. Mayberry, M. Collins

Pro Office 365 Development

Pro Office 365 Development is a practical, hands-on guide to building applications for the cloud with Office 365. Combine Office 365 features out of the box with custom code to make the most of what this increasingly powerful and flexible platform has to offer.As an Office 365 developer, you have an amazing range of technologies at your fingertips. Build a public website with Office 365's authoring solution, and customize it with CSS. Create a declarative workflow application with SharePoint Designer. Use Access Web Database to publish your data on the web, or write Exchange and Lync applications that integrate with Microsoft's cloud servers. All these possibilities and more are covered.You also have unprecedented control and flexibility over how you use these technologies in your applications. With a powerful set of Office 365 APIs, you can now access and integrate Office 365 data directly into your web or native applications, with full control of authentication, authorization and discovery. This book will show you how to work directly with these APIs, and finally how to build your own custom solution that draws from the entire Office 365 user experience – productivity, communication and social collaboration – powered by Office, SharePoint, Exchange, Lync and Yammer.No prior cloud experience is necessary.

Features
► The only book currently available that covers developing applications and solutions across all that Office 365 has to offerRequires ► no experience of SharePoint or Exchange, making it an ideal first move ► into cloud and collaborative solutions for .NET developersCovers the new integrated Office 365 APIs, which offer exciting new possibilities to Office 365 developers

Field of interest
Computer Science, general

Target groups
Popular/general

Product category
Professional book

J. Nutting, F. Olsson, D. Mark, J. LaMarche, K. Topley

Beginning iPhone Development

Objective-C Edition Using iOS SDK

The team that brought you the bestselling Beginning iPhone Development, the book that taught the world to program on the iPhone, is back again, bringing this definitive guide up-to-date with Apple's latest and greatest new iOS 8 and its SDK, as well as with the latest version of Xcode.You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using latest Xcode and the latest 64-bit iOS 8-specific project templates, and designed to take advantage of the latest Xcode features.Assuming only a minimal working knowledge of Objective-C, and written in a friendly, easy-to-follow style, Beginning iPhone Development offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 8 SDK, and then guides you though the creation of your first simple application.From there, you'll learn how to integrate all the interface elements iOS users have come to know and love, such as buttons, switches, pickers, toolbars, and sliders. You'll master a variety of design patterns, from the simplest single view to complex hierarchical drill-downs. The confusing art of table building will be demystified, and you'll learn how to save your data using the iPhone file system.

Feature
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M. Rahman

C# Deconstructed

Discover how C# works on the .NET Framework

C# Deconstructed answers a seemingly simply question: Just what is going on, exactly, when you run C# code on the .NET Framework? To answer this question we will dig ever deeper into the structure of the C# language and the onion-skin abstraction layers of the .NET Framework that underpins it. We'll follow the execution thread downwards, first to MSIL (Microsoft Intermediate Language) then down through just-in-time compilation into Machine Code before finally seeing the results executed at the hardware level. The aim of this deep-dive is to provide you with a much more rounded knowledge of the environment within which you code exists. As a managed language, it's best-practice to let the Framework deal with device interaction but you'll find the experience of taking the cover off once in a while a very rewarding one that will greatly enrich your appreciate of the C# language and the way in which in functions.

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Feature
► Only book dedicated to JSONJSON is ubiquitous as the preferred data format for the web-Brings readers of all abilities up to speed on an essential web technology

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K. Topley, F. Olsson, J. Nutting, D. Mark, J. LaMarche

Beginning iPhone Development with Swift

Exploring the iOS SDK

The team that brought you the bestselling Beginning iPhone Development, the book that taught the world how to program on the iPhone, is back again for Beginning iPhone Development with Swift bringing this definitive guide up-to-date with Apple's new Swift programming language and the latest and greatest iOS 8 SDK, and Xcode 6. There's coverage of brand-new technologies, including using Swift playgrounds, as well as significant updates to existing material. You'll have everything you need to create your very own apps for the latest iOS devices. Every single sample app in the book has been rebuilt from scratch using the latest Xcode and the latest 64-bit iOS 8-specific project templates, and designed to take advantage of the latest Xcode features. Assuming only a little or no working knowledge of the new Swift programming language, and written in a friendly, easy-to-follow style, this book offers a complete soup-to-nuts course in iPhone, iPad, and iPod touch programming. The book starts with the basics, walking through the process of downloading and installing Xcode and the iOS 8 SDK, and then guides you though the creation of your first simple application.

Feature
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