

International Year of Family Farming 2014

Springer Title List

The International Year of Family Farming 2014, declared by the UN, aims to indicate the role of farming families as the world's biggest food producer. The World Rural Forum and 360 farmer organizations want to call attention on poverty and hunger and to encourage policies for sustainable development. We therefor selected the best Springer titles on this subject to support and ease your choice.



Arts

P. Davies

In Wildwood

Forests, according to folklore, are places of mystery and fear the haunts of fierce animals and fiercer men. Yet for our ancestors the forests were sources of food and fuel, managed spaces. The forest of Pen Gelli in Wales was used by charcoal burners in the Iron Age and after, while Strata Florida served the needs of a Cistercian Abbey: the maple forests of Vermont reclaimed land used until the 19th century for sheep-farming. In these forests photographer Pete Davis has been exploring the dichotomy in forest fact and fable for over a decade, marking the changes worked by time, weather and human intervention. This is not a vision of the green splendour or the dark mystery of the [...]

Features

Forests, according to folklore, are places of mystery and fear the haunts of fierce animals and fiercer men. Yet for our ancestors the forests were sources of food and fuel, managed spaces. The forest of Pen Gelli in Wales was used by charcoal burners in the Iron Age and after, while Strata Florida served the needs of a Cistercian Abbey: the maple forests of Vermont reclaimed land used until the 19th [...]

Fields of interest

Photography; Fine Arts

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-03778-142-5

Hardcover

2008.

39,90 €

ISBN 978-3-03778-142-5

Springer does not distribute this product in your location.

Biomedicine

E. Reh binder, Universität Frankfurt, Frankfurt, Germany; M. Engelhard, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany; K. Hagen, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany; R.B. Jørgensen, Risoe National Laboratory, Roskilde, Denmark; R. Pardo Avellaneda, Banco Bilbao Vizcaya Argentaria (BBVA), Madrid, Spain; A. Schnieke, TU München, Freising, Germany; F. Thiele, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany

Pharming

Promises and risks of Biopharmaceuticals derived from genetically modified plants and animals

Recent scientific advances have made it possible to produce biopharmaceuticals in genetically modified plants and animals, such as maize, tobacco, goats, and chickens. This new branch of biotechnology is termed pharming, composed of the terms pharmaceuticals and farming. Pharming constitutes an overlap of red and green biotechnology. It offers the prospect of a quicker, cheaper, and more flexible production of biopharmaceuticals compared with current production processes. This is a promising perspective in light of the rapidly growing market of biopharmaceuticals, although the economic competitiveness of pharming remains to be proven. Besides possible benefits for producers, patients [...]

Features

Recent scientific advances have made it possible to produce biopharmaceuticals in genetically modified plants and animals, such as maize, tobacco, goats, and chickens. This new branch of biotechnology is termed pharming, composed of the terms pharmaceuticals and farming. Pharming constitutes an overlap of red and green biotechnology. It offers the prospect of a quicker, cheaper, and more flexible production [...]

Contents

Introduction.- The Technology of Pharming.- Risk Assessment of Plant- and Animal Pharming.- The Welfare of Pharming Animals.- Public Views and Attitudes to Pharming.- The Ethical Evaluation of Pharming.- The Role of Patents in the Development of Pharming.- Legal Problems of Pharming.- Conclusions and Recommendations.

Fields of interest

Pharmacology / Toxicology; Biochemical Engineering; Ethics; Biomedical Engineering

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-85792-1

Hardcover

2009. (Ethics of Science and Technology Assessment, Vol. 35)

74,95 €

ISBN 978-3-540-85792-1

usually dispatched within 3 to 5 business days

O.V. Singh, S.P. Harvey, US Army Medical Research, Aberdeen Proving Ground, USA (Eds.)

Sustainable Biotechnology

Sources of Renewable Energy

Sustainable Biotechnology; Sources of Renewable Energy draws on the vast body of knowledge about renewable resources for biofuel research, with the aim to bridge the technology gap and focus on critical aspects of lignocellulosic biomolecules and the respective mechanisms regulating their bioconversion to liquid fuels and other value-added products. This book is a collection of outstanding research reports and reviews elucidating several broad-ranging areas of progress and challenges in the utilization of sustainable resources of renewable energy, especially in biofuels.

Features

Nature offers abundant renewable resources that can be used to replace fossil fuels but issues of cost, technology readiness levels, and compatibility with existing distribution networks remain. Cellulosic ethanol and biodiesel are the most immediately obvious target fuels, with hydrogen, methane and butanol as other potentially viable products. Sustainable Biotechnology; Sources of [...]

Contents

Applications of Biotechnology for the Utilization of Renewable Energy Resources. 1 Heat and mass transport in processing of lignocellulosic biomass for fuels and chemicals. 2 Biofuels from Lignocellulosic Biomass. 3 Environmentally Sustainable Biofuels – The Case for Biodiesel, Biobutanol and Cellulosic Ethanol. 4 Biotechnological Applications of Hemicellulosic Derived Sugars: State-of-the-art. 5 Tactical Garbage to Energy Refinery (TGER). 6 Production of Methane Biogas as Fuel through Anaerobic Digestion. 7 Waste to renewable energy: a sustainable and green approach towards production [...]

Fields of interest

Biomedicine (general); Biotechnology; Microbiology; Renewable and Green Energy; Applied Microbiology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-90-481-3294-2

Hardcover

2010.

169,99 €

ISBN 978-90-481-3294-2

usually dispatched within 3 to 5 business days

J. Zweigenbaum, Agilent Technologies, Inc., Wilmington, USA (Ed.)

Mass Spectrometry in Food Safety

Methods and Protocols

As a key component of human survival, a safe and sufficient food supply is essential for a healthy and productive population throughout the world, so assurance that the food supply is clean and free of harmful substances is a global concern. In *Mass Spectrometry in Food Safety: Methods and Protocols*, experts in the field provide context to the subject through reviews of regulations in various countries, the current state-of-the-art, and specific, detailed scientific methods being employed today.

The volume thoroughly covers the key areas in food safety, such as detection of low level chemical residues, pesticide analysis aided by chromatographic techniques, and the revealing of[...]

Features

As a key component of human survival, a safe and sufficient food supply is essential for a healthy and productive population throughout the world, so assurance that the food supply is clean and free of harmful substances is a global concern. In *Mass Spectrometry in Food Safety: Methods and Protocols*, experts in the field provide context to the subject through reviews of regulations in various [...]

Contents

European Union Regulations.- China's Food Safety Regulation and Mass Spectrometry.- United States and Japanese Food Regulations.- QuEChERS Sample Preparation Approach for Mass Spectrometric Analysis of Pesticide Residues in Foods.- Automated Solid Phase Extraction.- Multiresidue Pesticide Analysis by Capillary Gas Chromatography-Mass Spectrometry.- Targeted Pesticide Residue Analysis Using Triple Quad LC-MS/MS.- LC/TOF-MS Analysis of Pesticides in Fruits and Vegetables: The Emerging Role of Accurate Mass in the Unambiguous Identification of Pesticides in Food.- Hormone Analysis in Food[...]

Fields of interest

Pharmacology / Toxicology; Food Science; Analytical Chemistry

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-61779-135-2

Hardcover

2011. XII, 416p. 104 illus.. (Methods in Molecular Biology, Vol. 747)

109,95 €

ISBN 978-1-61779-135-2

usually dispatched within 3 to 5 business days

Chemistry

J.M. Aguilera, Pontificia Universidad Católica de Chile, Santiago, Chile; P.J. Lillford, University of York, Heslington, York, United Kingdom (Eds.)

Food Materials Science

Principles and Practice

Food Materials Science provides the science behind structuring processes for foods and applications in food product design. The first in its field, the book is an invaluable reference. The creation of added value from raw food materials is a legitimate aspiration of the modern food industry. Adding value to foods requires knowledge of what the consumer wants and creating products that satisfy the demand. Quality, convenience and safety are the major drivers of the modern food industry. Food manufacture is about producing billions of units of standardized products which must be cheap, nutritious, safe and appealing to the consumer's taste. Food products are complex multicomponent and[...]

Features

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Contents

Fundamentals: Why Food Materials Science?- The Composite Structure of Biological Tissue used for Food.- Food Polymers.- The Crystalline State.- The Glassy State.- Rubber elasticity and Wheat Gluten Proteins.- State Diagrams of Food Materials.- Nanotechnology in Food Materials Research.- Assembly of Structures in Foods.- Solid Food Foams.- Probing Food Structures.- Structuring Operations: Structure-property relationships in foods.- Structuring Water by Gelation.- Bubble Containing Foods.- Emulsions: Principles and Preparation.- Processing of Food Powders.-Fat Crystal Networks.-[...]

Fields of interest

Food Science; Chemistry (general); Physical Chemistry

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-0-387-71946-7

Hardcover

2008. (Food Engineering Series)

169,99 €

ISBN 978-0-387-71946-7

usually dispatched within 3 to 5 business days

H.K. Biesalski, University of Hohenheim, Stuttgart, Germany

Hidden Hunger

Hidden Hunger is an increasing problem even in developed countries, whose potential negative consequences on long-term health are often overlooked and underestimated. Chronic malnutrition is at the core of the global hunger challenge facing science, politics, and economics. In plain language and with moving examples, Hans K. Biesalski describes how hidden hunger affects human health long before malnutrition becomes obvious. Worldwide, over one third of deaths among children under 5 years of age is associated with malnutrition. As poverty is the main reason for hidden hunger, addressing this dire challenge requires long-term policies. Land grabbing and climate change seriously[...]

Features

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Contents

Hunger - a baseline study of the current situation.- Hidden hunger.- Causes of hidden hunger.- Trapped on the hunger carousel - generation after generation.- Quality comes with a price tag - the deadly triangle of economics, hunger and child development.- Ways out of the hunger crisis - making food security secure.- Strategies to combat hidden hunger.

Fields of interest

Food Science; Agriculture; Public Health; Development Economics; Popular Science

Target groups

Popular/general

Type of publication

Popular science

More on www.springer.com/978-3-642-33949-3

Hardcover

English edition of 'Der verborgene Hunger' (Springer Spektrum), 2012, ISBN 978-3-8274-2952-0

2013. XIII, 255 p. 34 illus.

34,99 €

ISBN 978-3-642-33949-3

Online orders shipping within 2-3 days.

M. Canavari, Università di Bologna, Bologna, Italy; K.D. Olson, University of Minnesota, St. Paul, USA (Eds.)

Organic Food

Consumers' Choices and Farmers' Opportunities

Consumers' attention to food safety issues and environmental issues has increased overwhelmingly in recent decades because of their increased concern about their own health, the environment's health, and the crises and emergencies reported worldwide. Once the only option, organic agriculture has always been a production option followed by at least a few farmers all over the world. These farmers were prompted by ethical and environmental motivations, as well as by committed consumers who supported organic agriculture thanks to a separate but fairly elitist distribution channel. Organic food now has become a viable alternative for an increasing number of consumers that are worried about[...]

Features

Consumers' attention to food safety issues and environmental issues has increased overwhelmingly in recent decades because of their increased concern about their own health, the environment's health, and the crises and emergencies reported worldwide. Once the only option, organic agriculture has always been a production option followed by at least a few farmers all over the world. These farmers were [...]

Contents

From Niche to Market: the Growth of Organic Business in Italy.- An Overview of Organic Agriculture in the United States.- A Comparative Profitability Analysis of Organic and Conventional Farms in Emilia-Romagna and in Minnesota.- Situation and Perspectives of Organic Meat in Italy.- Profitability of Organic Cropping Systems in Southwestern Minnesota.- Comparing the Profitability of Organic and Integrated Crop Management.- Marketing Strategies for Organic Wine Growers in the Veneto Region.- Investigating Preferences for Environment Friendly Production Practices.- Potential Demand for[...]

Fields of interest

Food Science; Agricultural Economics

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-0-387-39581-4

Hardcover

2007. XVII, 197 p.

149,99 €

ISBN 978-0-387-39581-4

usually dispatched within 3 to 5 business days

M. Gobetti, University of Bari Aldo Moro, Bari, Italy; M. Gänzle, University of Alberta, Edmonton, Canada (Eds.)

Handbook on Sourdough Biotechnology

In the last few decades, many efforts have been made to exploit sourdough's potential for making baked goods. Through the biotechnology of this traditional baking method, many sensory, rheological, nutritional, and shelf-life properties have been discovered and/or rediscovered. Bakery industries are greatly attracted by the potentials that sourdough presents, and new industrial protocols are being developed. To the best of our knowledge, there has been no single book dedicated to sourdough biotechnology, and which clearly demonstrate its potential. This book aims at defining and highlighting the microbiological, technological, nutritional, and chemical aspects of sourdough[...]

Features

Bread and leavened bakery products have been essential to human nourishment for millennia. Traditionally, bread production has relied on the use of sourdough as a leavening agent and to impart a characteristic quality to baked goods. In recent years, improved understanding of the biodiversity and microbial ecology of sourdough microbiota, the discovery of new species, and the commercialization of innovative [...]

Contents

1. Historical and Social Aspects of Sourdough.- 2. Chemistry of Cereal Grains.- 3. Technology of Baked Goods.- 4. Technology of Sourdough Fermentation and Sourdough Applications.- 5. Taxonomy and Biodiversity of Sourdough Yeasts and Lactic Acid Bacteria.- 6. Physiology and Biochemistry of Sourdough Yeasts.- 7. Physiology and Biochemistry of Lactic Acid Bacteria.- 8. Sourdough: A Tool to Improve Bread Structure.- 9. Nutritional Aspects of Cereal Fermentation with Lactic Acid Bacteria and Yeasts.- 10. Sourdough and Gluten-Free Products.- 11. Sourdough and Cereal Beverages.- 12. Perspectives.

Fields of interest

Food Science; Biochemistry; Biotechnology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-5424-3

Hardcover

2013. VI, 298 p. 49 illus., 28 illus. in color.

99,95 €

ISBN 978-1-4614-5424-3

usually dispatched within 3 to 5 business days

F. Harding

Milk Quality

Milk and dairy products are a major part of the human diet in many countries. It is not surprising therefore that considerable attention is paid to obtaining the best possible quality of milk by improving the yield, compositional quality and hygienic quality, and minimizing the level of contaminants at all stages of milk production. This book provides easily understood background knowledge of milk quality problems. It identifies the quality parameters of significance, and explains what they are, why they are important and how they are measured. Practical help is given for the sampling and testing of milk. Most important of all, the value of good quality milk and how it[...]

Features

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Fields of interest

Food Science

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-8342-1345-6

Hardcover

1996.

149,95 €

ISBN 978-0-8342-1345-6

usually dispatched within 3 to 5 business days

M. Hefnawy, Ag-Tech International Inc., Greenville, USA (Ed.)

Advances in Food Protection

Focus on Food Safety and Defense

The global food-supply chain is vulnerable to threats from a variety of directions. Hence food security and safety remains a hot topic worldwide in academic research arenas and food industry practices. This book describes efforts from academia, government, and industry to counter food terrorism and to protect the food supply against any threat. In addition, it evaluates the global food supply, production capabilities, and food availability during and after disasters. Articles in the book assess food safety emergencies, and the prevention of, and response to deliberate contamination by microbial or chemical substances. Minimization of health and economic risks following a terrorist act[...]

Features

The global food-supply chain is vulnerable to threats from a variety of directions. Hence food security and safety remains a hot topic worldwide in academic research arenas and food industry practices. This book describes efforts from academia, government, and industry to counter food terrorism and to protect the food supply against any threat. In addition, it evaluates the global food supply, production [...]

Contents

Preface.- NATO-SPS Pilot Study on Food Chain Security: Finding and Recommendations.- Food Safety and Bioterrorism from Public Health Perspective.- Food Safety: the Global Problem as a Challenge for Future Initiatives and Activities.- Solidarity Principle as A System Tool for Mitigation of Flood Impacts / Scope and Effectiveness in Western Balkan Countries: An Issue for Investigation.- Higher Risks of Health Problems for Radio-Contaminated Food Consumption by Human Population.- Chemical Pollutants Threatening Food Safety and Security: an Overview.- Defending the Safety of the Global Food[...]

Fields of interest

Chemistry (general); Applied Microbiology; Food Science; Safety in Chemistry / Dangerous Goods

Target groups

Graduate

Type of publication

Proceedings

More on www.springer.com/978-94-007-1099-3

Hardcover

2011. XIII, 254p. 56 illus.. (NATO Science for Peace and Security Series A: Chemistry and Biology)

139,95 €

ISBN 978-94-007-1099-3

usually dispatched within 3 to 5 business days

T. Hohn, K.M. Leisinger (Eds.)

Biotechnology of Food Crops in Developing Countries

Tropical crops such as cowpea, yam, plantain, and cassava are heavily underresearched but, in addition to rice, maize, wheat, and potato, are important as primary or secondary food staples in the developing countries. The modern tools of molecular and cellular technology offer the opportunity not only to make substantial gains in knowledge of these crops, but also they overcome some of the obstacles which presently restrain both the genetic improvement and the productivity of these crops in tropical farming systems. Increased nutritional value of these crops, reduced post-harvest perishability, and lower costs of production are some of the advantages taken from biotechnology.[...]

Features

Tropical crops such as cowpea, yam, plantain, and cassava are heavily underresearched but, in addition to rice, maize, wheat, and potato, are important as primary or secondary food staples in the developing countries. The modern tools of molecular and cellular technology offer the opportunity not only to make substantial gains in knowledge of these crops, but also they overcome some of the obstacles which [...]

Contents

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Fields of interest

Biotechnology; Agriculture; Forestry

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-211-83240-0

Hardcover

1999. XI, 227 p. (Plant Gene Research)

89,99 €

ISBN 978-3-211-83240-0

usually dispatched within 3 to 5 business days

R.J. Marshall, London Metropolitan University, London, United Kingdom (Ed.)

Food Safety

A Practical and Case Study Approach

Food Safety: A Practical and Case Study Approach, the first volume of the ISEKI-Food book series, discusses how food quality and safety are connected and how they play a significant role in the quality of our daily lives. Topics include methods of food preservation, food packaging, benefits and risks of microorganisms and process safety. The ISEKI-Food book series is a collection where various aspects of food safety and environmental issues are introduced and reviewed by scientists specializing in the field. In all of the books special emphasis is placed on including case studies applicable to each specific topic. The books are intended for graduate students and senior level[...]

Features

The ISEKI-Food book series is a collection where various aspects of food safety and environmental issues are introduced and reviewed by scientists specializing in the field. In all of the books special emphasis is placed on including case studies applicable to each specific topic. The books are intended for graduate students and senior level undergraduate students as well as professionals and [...]

Contents

Foreword.- Acknowledgements.- PRESERVATION AND PROTECTION: Methods of Food Preservation.- The Challenge of Mycotoxins.- Preventative Measures for Process Safety.- Food Packaging.- BENEFITS AND RISKS OF MICROORGANISMS: HACCP in the Cheese Manufacturing Process, a Case Study.- Genetically Modified Organisms and Food Safety.- Food Ingredients with Potential to Modulate the Intestinal Microflora: The Role of Probiotics and Prebiotics.- Exploitation of Microorganisms by the Food and Beverage Industry.- Pathogenicity, Commensalism, and the Beneficial Microorganisms.- Foodborne Viruses an[...]

Fields of interest

Food Science

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-0-387-33509-4

Hardcover

2007. XIX, 311 p. (Integrating Food Science and Engineering Knowledge Into the Food Chain, Vol. 1)

129,99 €

ISBN 978-0-387-33509-4

usually dispatched within 3 to 5 business days

E. Ortega-Rivas, Autonomous University of Chihuahua, Chihuahua, Mexico

Non-thermal Food Engineering Operations

A number of food engineering operations, in which heat is not used as a preserving factor, have been employed and are applied for preparation (cleaning, sorting, etc.), conversion (milling, agglomeration, etc.) or preservation (irradiation, high pressure processing, pulsed electric fields, etc.) purposes in the food industry. This book presents a comprehensive treatise of all normally used food engineering operations that are carried out at room (or ambient) conditions, whether they are aimed at producing microbiologically safe foods with minimum alteration to sensory and nutritive properties, or they constitute routine preparative or transformation operations. The book is written for[...]

Features

A number of food engineering operations, in which heat is not used as a preserving factor, have been employed and are applied for preparation (cleaning, sorting, etc.), conversion (milling, agglomeration, etc.) or preservation (irradiation, high pressure processing, pulsed electric fields, etc.) purposes in the food industry. This book presents a comprehensive treatise of all normally used food engineering [...]

Contents

Part I. Introductory Aspects.- 1. Classification of Food Processing and Preservation Operations.- 2. Common Preliminary Operations: Cleaning, Sorting, Grading.- 3. Materials Handling in the Food Industry.- 4. Size Reduction.- 5. Size Enlargement.- 6. Mixing and Emulsification.- 7. Separation Techniques for Solids and Suspensions.- 8. Membrane Separations.- 9. Electromagnetic Radiation: Ultraviolet Energy Treatment.- 10. Ionizing Radiation: Irradiation.- 11. Ultrasound in Food Preservation.- 12. Pulsed Light Technology.- 13. High-Voltage Pulsed Electric Fields.- 14. Ultra-High[...]

Fields of interest

Food Science; Biochemical Engineering; Biomedical Engineering

Target groups

Graduate

Type of publication

Monograph

More on www.springer.com/978-1-4614-2037-8

Hardcover

2012. XIV, 361 p. 119 illus. (Food Engineering Series)

129,99 €

ISBN 978-1-4614-2037-8

usually dispatched within 3 to 5 business days

P. Pechan, Ludwig Maximilians University, Munich, Munich, Germany; O. Renn, Dialogik, Stuttgart, Germany; A. Watt, NERC Centre for Ecology and Hydrology, Penicuik, United Kingdom; I. Pongratz, Karolinska Institutet, Stockholm, Sweden

Safe or Not Safe

Deciding What Risks to Accept in Our Environment and Food

Based on an EU workshop at the end of 2005, the book discusses risk and our food supply. The introductory chapter will discuss all aspects of risk and how it applies to food, from risk classification to risk management. Following a discussion of risk, the authors will present three different case studies that will emphasize the following issues: • What do we want as individuals, as a society • What is the political context of the risk discussion • When do we act and what are the costs of not acting/acting • International trade and legal issues • Moral dimensions of decision making • How do we deal with the disproportionate "power" of the various stakeholders • Rationality/emotive aspects[...]

Features

Safe or Not Safe aims to present a comprehensive picture of food-related risk issues, as observed in daily life. Included are numerous real-life examples showing how scientists measure, assess, evaluate and manage potential risks, and how this helps us to decide how to manage our food chain and ultimately the food we eat. The book is divided into four inter-related chapters. Chapter one deals [...]

Contents

1. Risks.- 2. Biodiversity at Risk.- 3. Chemical Contaminants in Food.- 4. The Food Choices We Make.

Fields of interest

Food Science; Nutrition; Genetic Engineering; Quality Control, Reliability, Safety and Risk

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4419-7867-7

Hardcover

2011. II, 150p. 16 illus., 10 illus. in color.

99,95 €

ISBN 978-1-4419-7867-7

usually dispatched within 3 to 5 business days

N.N. Potter, J.H. Hotchkiss

Food Science

Fifth Edition

Now in its fifth edition, Food Science remains the most popular and reliable text for introductory courses in food science and technology. This new edition retains the basic format and pedagogical features of previous editions and provides an up-to-date foundation upon which more advanced and specialized knowledge can be built. This essential volume introduces and surveys the broad and complex inter-relationships among food ingredients, processing, packaging, distribution and storage, and explores how these factors influence food quality and safety. Reflecting recent advances and emerging technologies in the area, this new edition includes updated commodity and ingredient[...]

Features

Now in its fifth edition, Food Science remains the most popular and reliable text for introductory courses in food science and technology. This new edition retains the basic format and pedagogical features of previous editions and provides an up-to-date foundation upon which more advanced and specialized knowledge can be built. This essential volume introduces and surveys the broad and complex [...]

Fields of interest

Food Science; Chemistry (general)

Target groups

Research

Type of publication

Undergraduate textbook

More on www.springer.com/978-0-8342-1265-7

Hardcover

1995. XV, 608 p. (Food Science Text Series)

69,95 €

ISBN 978-0-8342-1265-7

usually dispatched within 3 to 5 business days

N.J. Russell, University London, Ashford, Kent, United Kingdom;
G.W. Gould (Eds.)

Food Preservatives

For centuries man has treated food to prolong its edible life, and nowadays both traditional and modern preservatives are used widely to ensure the satisfactory maintenance of quality and safety of foods. There continues to be increased public concern about the use of food additives, including preservatives, resulting from a perception that some of them may have deleterious effects on health. However, as eating habits have changed with an emphasis on what has been popularly termed a 'healthy diet', there is at the same time a concern that reduction in preservative usage could lead to loss of safety and protection from food poisoning. While some preservatives are coming under[...]

Features

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Contents

Major, New and Emerging Food-Poisoning and Food-Spoilage Microorganisms.- Major Preservation Technologies.- Acidulants and Low pH.- Organic Acids and Esters.- Sulfite.- Nitrite.- Solutes and Low Water Activity.- Bacteriocins - Nisin.- Natamycin.- Ethanol as a Food Preservative.- Modified Atmospheres and Vacuum Packaging.- Surface Preservation for Fruits and Vegetables.- Naturally Occurring Antimicrobial Systems.- Starter and Protective Cultures.- Legislative Aspects.- Food Preservatives - Future Prospects.

Fields of interest

Food Science; Chemistry (general); Microbiology; Biochemistry

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-306-47736-2

Hardcover

2003. 386 p.

199,99 €

ISBN 978-0-306-47736-2

usually dispatched within 3 to 5 business days

I. Shaw

Is it Safe to Eat?

Enjoy Eating and Minimize Food Risks

Does your perception of food risks closely mirror the real risks? The reality is not what you think it is! Nobody would expect to die of cyanide poisoning after eating an almond cake - but if you tell them there is cyanide in it, they might think at least twice about eating it. Do you know that you are spreading an aerosol of *Camphylobacter* bacteria around your kitchen and on other food that may lay around - and thus creating possibly life-threatening toxins - just by washing an oven-ready chicken from the supermarket before roasting it? The author, Ian Shaw, PhD, discusses all these and many other important problems and questions - ranging from GM food to natural toxins - in his[...]

Features

Does your perception of food risks closely mirror the real risks? The reality is not what you think it is! Nobody would expect to die of cyanide poisoning after eating an almond cake - but if you tell them there is cyanide in it, they might think at least twice about eating it. Do you know that you are spreading an aerosol of *Camphylobacter* bacteria around your kitchen and on other food that may lay around [...]

Contents

Food safety through the ages.- Food is just one of life's risks.- Bacteria in food - good or bad?.- Viruses.- Mad Cow Disease and the elusive prion.- Natural toxins in food.- Agrochemical residues in food.- Gender bending chemicals in food.- Genetically modified food.- Is it safe to eat?

Fields of interest

Food Science; Pharmacology / Toxicology; Nutrition; Health Psychology; Chemistry (general)

Target groups

Professional/practitioner

Type of publication

Popular science

More on www.springer.com/978-3-540-21286-7

Hardcover

2005. XI, 251 p.

39,95 €

ISBN 978-3-540-21286-7

usually dispatched within 3 to 5 business days

F. Wambugu, Africa Harvest Biotech Foundation, Nairobi, Kenya;
D. Kamanga, Africa Harvest Biotech Foundation, Nairobi, Kenya
(Eds.)

Biotechnology in Africa

Emergence, Initiatives and Future

In this book, Florence Wambugu and Daniel Kamanga of Africa Harvest Biotech Foundation International bring together expert African authorities to critique various biotechnology initiatives and project future developments in the field in Africa. For the first time, African voices from multidisciplinary fields as diverse as economics, agriculture, biotechnology, law, politics and academia, demand to be allowed to set the continent's biotech development agenda. This book argues that there is a great future for biotechnology in Africa which sidesteps western interests that do not match those of the local populace. In these diverse chapters, Africa's political and scientific leaders demand[...]

Features

In this book, Florence Wambugu and Daniel Kamanga of Africa Harvest Biotech Foundation International bring together expert African authorities to critique various biotechnology initiatives and project future developments in the field in Africa. For the first time, African voices from multidisciplinary fields as diverse as economics, agriculture, biotechnology, law, politics, and academia, demand to [...]

Contents

Introduction: The Importance of Political Will in furthering Agricultural Biotechnology for Economic Growth, Food and Nutritional Security in Africa.- Commercialized Genetically Modified Crops: Biotech (Bt) Cotton in Burkina Faso Demonstrates that Political Will is Key for Biotechnology to Benefit Commercial Agriculture in Africa.- Opportunities and Challenges of Commercializing Biotech Products in Egypt: Biotech (Bt) Maize: A Case Study.- Genetically Modified Crops Commercialized in South Africa.- Building the Bio-economy and Commercialization Challenges: Moving Africa Towards a[...]

Fields of interest

Biotechnology; R & D / Technology Policy; Plant Sciences; Agriculture; Environmental Management; Pharmacy

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-04000-4

Hardcover

2014. 380 p. 150 illus., 50 illus. in color. (Science Policy Reports, Vol. 7)

129,99 €

ISBN 978-3-319-04000-4

Due: March 31, 2014

Earth Sciences

H. Fischer, Alfred-Wegener-Institut für, Bremerhaven, Germany; Th. Kumke, Alfred-Wegener-Institut für, Potsdam, Germany; G. Lohmann, Universität Bremen, Bremen, Germany; H. Miller, Alfred-Wegener-Institut für, Bremerhaven, Germany; J. Negeandank, GeoForschungsZentrum Potsdam, Potsdam, Germany (Eds.)

The Climate in Historical Times

Towards a Synthesis of Holocene Proxy Data and Climate Models

The project "Climate in Historical Times" (KIHZ) represents an integrative approach by geoscientists and climate modellers to analyse the dynamics of natural climate variability during the Holocene. This volume summarises the outcome of a KIHZ summer school. The meeting dealt with a variety of topics related to natural climate variability, ranging from reconstructions of past climate using so-called "proxy data" derived from ice cores, lake sediments, tree rings and corals. These data are used to validate and assimilate climate models. The first part of this volume provides an overview of the climate system and its dynamics. It uses climate models of differing complexity and [...]

Features

The project "Climate in Historical Times" (KIHZ) represents an integrative approach by geoscientists and climate modellers to analyse the dynamics of natural climate variability during the Holocene. This volume summarises the outcome of a KIHZ summer school. The meeting dealt with a variety of topics related to natural climate variability, ranging from reconstructions of past climate using so-called "proxy [...]

Contents

The Holocene.- Nonlinear Dynamics of the Climate System.- Quasi-realistic Climate Models.- Holocene Climate Variability from Model Simulations.- Marine Paleoclimatology.- Corals as Climate Archive.- Annually Laminated Lake Sediments.- Interpreting Climate Proxies from Tree-rings.- The Environmental and Climate Record in Polar Ice Cores.- Data Assimilation Through Upscaling and Nudging.- Mid to Late Holocene Lake Ecosystem Response to Catchment and Climatic Changes.- Holocene Paleoclimate in the Sahara-Arabian Desert.- Transfer Functions for Paleoclimate Reconstructions.- Climate[...]

Fields of interest

Atmospheric Sciences; Monitoring / Environmental Analysis; Geology; Paleontology; Sedimentology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-20601-9

Hardcover

2004. XXI, 487 p. (GKSS School of Environmental Research)

219,00 €

ISBN 978-3-540-20601-9

usually dispatched within 3 to 5 business days

H. Hötzl, Universität Karlsruhe, Karlsruhe, Germany; P. Möller, Deutsches GeoForschungsZentrum (GFZ), Potsdam, Germany; E. Rosenthal, Tel Aviv University, Tel Aviv, Israel (Eds.)

The Water of the Jordan Valley

Scarcity and Deterioration of Groundwater and its Impact on the Regional Development

Natural saline water, waste water, and irrigation return flow endanger the groundwater aquifers in the Rift. In the long run this will ruin the socio-economic backbone of the settlements in the area. Sustainability of the water resources will only be achieved when the process of water replenishment and its underground flow is understood and water extraction is regionally controlled. Rare earth element and spider patterns are presented as new tools for studying the hydrology. Progress in 3-D modelling of groundwater flow proved successfully the impact of pumping on the surroundings of wells and overexploitation of aquifers.

Features

Natural saline water, waste water, and irrigation return flow endanger the groundwater aquifers in the Rift. In the long run this will ruin the socio-economic backbone of the settlements in the area. Sustainability of the water resources will only be achieved when the process of water replenishment and its underground flow is understood and water extraction is regionally controlled. Rare earth element and [...]

Contents

1 Introduction.- 2 State of the Art.- 3 Research Studies.- 4 Groundwater Management.- 5 Conclusions and Recommendations.- Subject Index.

Fields of interest

Hydrogeology; Water Industry/Water Technologies; Waste Management / Waste Technology; Agriculture; Geophysics / Geodesy; Geochemistry

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-77756-4

Hardcover

2009.

169,99 €

ISBN 978-3-540-77756-4

Currently out of stock, reprint ready for shipping 6 weeks.

I.A. Krupenikov, B.P. Boincean, D. Dent

The Black Earth

Ecological Principles for Sustainable Agriculture on Chernozem Soils

Soil is the Earth's living skin. It provides anchorage for roots, holds water long enough for plants to make use of it and the nutrients that sustain life – otherwise the Earth would be as barren as Mars. It is home to myriad micro-organisms and armies of microscopic animals as well as the familiar earthworm that accomplish biochemical transformations from fixing atmospheric nitrogen to recycling wastes; it receives and process all fresh water, provides the foundations for our built environment; and comprises the biggest global carbon store that we know how to manage. This book is about the best soil in the world - the black earth or chernozem: how it is being degraded by farming and [...]

Features

Soil is the Earth's living skin. It provides anchorage for roots, holds water long enough for plants to make use of it and the nutrients that sustain life – otherwise the Earth would be as barren as Mars. It is home to myriad micro-organisms and armies of microscopic animals as well as the familiar earthworm that accomplish biochemical transformations from fixing atmospheric nitrogen to recycling wastes; it [...]

Contents

Preface.- 1. Introduction.- 2. The soil cover.- 3. Soil texture and structure.- 4. Soil mineralogy and elemental composition.- 5. Adsorption capacity and reaction.- 6. Soluble salts and soil solution.- 7. Humus - the guardian of soil fertility and global carbon sink.- 8. The nitrogen riddle.- 9. Phosphorus and sulphur budgets.- 10. Life in the soil.- 11. Soil structure, soil water and drought.- 12. The chernozem family.- 13. Accomodating soil diversity.- 14. Society's perspective.- 15. Biological cycles.- 16. Soil health and soil quality.- 17. Farming and soil health.- 18. Experimental[...]

Fields of interest

Earth Sciences (general)

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-94-007-0158-8

Hardcover

2011. XXVI, 146 p. (International Year of Planet Earth, Vol.)

99,95 €

ISBN 978-94-007-0158-8

usually dispatched within 3 to 5 business days

R.K. Rai, DHI (India) Water & Environment Pvt Ltd, New Delhi, India; A. Upadhyay, DHI (India) Water & Environment Pvt Ltd, New Delhi, India; C.S.P. Ojha, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India; V.P. Singh, Texas A&M University, College Station, USA

The Yamuna River Basin

Water Resources and Environment

This book is designed to provide concepts, methodologies, and approaches for river basin studies with respect to water resources and environment. The book is not limited to the Yamuna River basin, but will help in the study of various other river basins for integrated water resources management. The book covers the essential components of integrated water resources management, including analysis of climatic variables, climate change detection, analysis of natural resources, geology, geomorphology, socio-economics, water budgeting, flood estimation, river pollution, etc. Furthermore, the book addresses recent issues pertaining to water quality, water quality indices, environmental[...]

Features

This book is designed to provide concepts, methodologies, and approaches for river basin studies with respect to water resources and environment. The book is not limited to the Yamuna River basin, but will help in the study of various other river basins for integrated water resources management. The book covers the essential components of integrated water resources management, including analysis of climatic [...]

Contents

Preface.- List of figures.- List of tables.- 1 River basins of India and water resources.- 2 Salient features of the Yamuna river basin.- 3 Climate of the basin.- 4 Pattern changes in climatic variables.- 5 Geomorphology and geology.- 6 Soil, landuse and agriculture.-7 Socio-economic status.- 8 Water resources and water budgeting.- 9 Water pollution.- 10 Wastewater generation and treatment.- 11 Water quality index and status.- 12 Environmental flows.- 13 Cropping plan for water resources management.- Appendices.- Index

Fields of interest

Hydrogeology; Hydrology / Water Resources; Climate Change Impacts; Atmospheric Sciences; Earth Sciences (general); Climate Change

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-94-007-2000-8

Hardcover

2012. XXX, 478 p. (Water Science and Technology Library, Vol. 66)

129,95 €

ISBN 978-94-007-2000-8

usually dispatched within 3 to 5 business days

G.J. Schrama (Ed.)

Drinking Water Supply and Agricultural Pollution

Preventive Action by the Water Supply Sector in the European Union and the United States

Agricultural pollution (with nitrates and pesticides) is one of the biggest threats to drinking water resources. At many places regional and local water authorities, together with the water supply industry, are involved in preventive action aimed at farming practices. Three national case studies (Germany, The Netherlands, and the United Kingdom) analyse these efforts within the context of problematical national agricultural policy and the need to implement EU directives on water quality. Additional case studies cover the role of the European Union, while the same problem in a different setting is analysed for the United States. The central question of how national and[...]

Features

Agricultural pollution (with nitrates and pesticides) is one of the biggest threats to drinking water resources. At many places regional and local water authorities, together with the water supply industry, are involved in preventive action aimed at farming practices. Three national case studies (Germany, The Netherlands, and the United Kingdom) analyse these efforts within the context of problematical [..]

Fields of interest

Hydrogeology; Political Science, general; Environmental Management; Agricultural Economics

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-5104-7

Hardcover

1998. XI, 375 p. (Environment & Policy, Vol. 11)

218,00 €

ISBN 978-0-7923-5104-7

usually dispatched within 3 to 5 business days

N. Shikazono, Keio University, Yokohama, Japan

Introduction to Earth and Planetary System Science

New View of Earth, Planets and Humans

This book presents basic information on material science (geochemistry, geophysics, geology, mineralogy, etc.), interaction between subsystem consisting earth system (atmosphere, hydrosphere, litho (geo) sphere, biosphere, humans) and in earth-planet system and evolution of earth-planetary system. The nature-humans interactions are described and new view on earth, planets and humans (integration of anthropocentrism and naturecentrism) are presented.

Features

A stable sustainable human society cannot be achieved without an understanding of the earth's surface environment and the earth's interior as it influences the surface, and of the interactions between humans and nature. According to earth system science, the earth system consists of subsystems, such as the atmosphere, hydrosphere, geosphere, biosphere, and humans, and the interactions among these [..]

Contents

Constituent components of earth system.- Material circulation in earth.- Nature-humans interaction.- Universe-sun system.- Evolution of the earth system.- Modern view in nature and humans.

Fields of interest

Geochemistry; Earth Sciences (general); Geocology / Natural Processes; Planetology

Target groups

Upper undergraduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-4-431-54057-1

Softcover

Original edition published in Japanese

2012. XII, 177p. 80 illus..

59,95 €

ISBN 978-4-431-54057-1

usually dispatched within 3 to 5 business days

R. Sinha, Indian Institute of Technology, Lucknow, India; R. Ravindra, National Center for Antarctic and Ocean, Lucknow, India (Eds.)

Earth System Processes and Disaster Management

One of the fundamental goals of earth system science research is to adopt a more holistic view of the earth as a 'system' comprising different domains. The Society of Earth Scientists has brought out this multidisciplinary publication to emphasize the need of an integrated approach to understand the Earth system. It focuses on natural disasters and, in particular, on climate change and its effects in Asia and understanding the significance of these developments within the context of the paleo-climatic record. The later sections of the book then focus on other types of natural disasters as well as those induced by human interaction with our environment.

Features

One of the fundamental goals of earth system science research is to adopt a more holistic view of the earth as a 'system' comprising different domains. The Society of Earth Scientists has brought out this multidisciplinary publication to emphasize the need of an integrated approach to understand the Earth system. It focuses on natural disasters and, in particular, on climate change and its effects in [...]

Contents

Preface - 1. Introduction,- Section I Earth Systems: Cryosphere and hydrosphere.- 2. Global warming and glacier retreat - an overview.- 3. Asynchronous behaviour of glaciers of Ladakh Himalaya.- 4. Signatures and evidences of surging glaciers in Shyok valley.- 5. Antarctic climate variability during the past few centuries.- 6. River systems and river science in India,- Section II Earth's climate system and paleo-climate.- 7. Impact of climate change on lichen and moss communities in Ny-Alesund.- 8. High resolution southwest monsoon reconstruction for the past ~ 2800 years.- 9. New record[...]

Fields of interest

Earth System Sciences; Climate Change Impacts; Climate Change; Geology; Geophysics / Geodesy

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-28844-9

Hardcover

2013. XII, 244 p. 119 illus., 92 illus. in color. (Society of Earth Scientists Series)

99,95 €

ISBN 978-3-642-28844-9

usually dispatched within 3 to 5 business days

Economics

L.-M. Asselin, Institut de Mathématique Gauss, Levis, Canada

Analysis of Multidimensional Poverty

Theory and Case Studies

This book presents a new method for measuring multidimensional poverty. The author critically analyzes various statistical approaches, and proposes a new way of applying the factorial technique, Multiple Correspondence Analysis, to poverty analysis. The core of this new approach rests on the identification of poverty types and on the construction of a Composite Indicator of Poverty, which objectively weights the multiple categories of poverty. Built as a two-step approach, Multiple Correspondence Analysis allows for the integration of money-metric income techniques. The author reflects on the conceptual debates and dimensions of poverty, presenting empirical studies showing the [...]

Features

This book puts forward an operational methodology for measuring multidimensional poverty, independent from the conceptual origin, size and qualitative as well as quantitative nature of the primary indicators used to describe the poverty of an individual, household or socio-demographic entity. It allows for the integration of the sets of techniques already available or forthcoming in the area of income [...]

Contents

Introduction.- Indicators and Multidimensionality Analysis.- Composite Indicator of Poverty.- Multidimensional Poverty and Inequality Analysis.- Conclusion.- Case Study #1: Multidimensional Poverty in Senegal: A Non-Monetary Basic Needs Approach.- Case Study #2: Dynamic Poverty Analysis in Vietnam 1993-2002: Multidimensional versus Money-metric Analysis.

Fields of interest

Development Economics; Labor Economics; Social Policy

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4419-0842-1

Hardcover

2009. (Economic Studies in Inequality, Social Exclusion and Well-Being, Vol. 7)

139,99 €

ISBN 978-1-4419-0842-1

usually dispatched within 3 to 5 business days

E.T. Ayuk, United Nations University's Institute for Africa, Accra, Ghana; S.T. Kaboré (Eds.)

Wealth through Integration

Regional Integration and Poverty-Reduction Strategies in West Africa

Could regional integration be a first step toward joining the global market? In a context where liberalizing trade has not produced the expected gains in developing countries and growth in global trade has not led to the expected economic growth, an alternative solution has emerged. This new paradigm suggests that trade liberalization should be accompanied by public investment. However, by its very nature, trade liberalization leads to a reduction in revenues from duties and taxes, which means that the available resources for public investments will also be reduced. There are now solid arguments for encouraging the less-developed countries to first emphasize regional integration [...]

Features

Could regional integration be a first step toward joining the global market? In a context where liberalizing trade has not produced the expected gains in developing countries and growth in global trade has not led to the expected economic growth, an alternative solution has emerged. This new paradigm suggests that trade liberalization should be accompanied by public investment. However, by its very [...]

Contents

INTRODUCTION: WHY INTEGRATE?.- CHAPTER 1: FIFTEEN YEARS OF WAEMU: RESULTS AND STRATEGIES FOR THE FUTURE.- DIERY SECK CHAPTER 2. GROWTH AND CONVERGENCE IN AFRICA: A DYNAMIC PANEL APPROACH.- CHAPTER 3: HAS THERE BEEN REAL AND STRUCTURAL CONVERGENCE IN WAEMU COUNTRIES?.- CHAPTER 4 THE IMPACT OF THE CONVERGENCE, STABILITY AND GROWTH PACT IN THE WAEMU.- CHAPTER 5: REAL CONVERGENCE IN THE WAEMU AREA: A BAYESIAN ANALYSIS.- CHAPTER 6: THE EFFECTS OF CREDIT CONSTRAINTS ON ECONOMIC CONVERGENCE: THE CASE OF THE WAEMU COUNTRIES.- CHAPTER 7: FREE MOVEMENT OF GOODS IN WAEMU COMMUNITY LAW AND THE [...]

Fields of interest

Development Economics; Economic Growth; Economic Policy

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-4414-5

Hardcover

2013. XXIV, 297 p. 37 illus., 32 illus. in color. (Insight and Innovation in International Development, Vol. 4)

99,95 €

ISBN 978-1-4614-4414-5

usually dispatched within 3 to 5 business days

A.K. Bhandari, A. Kundu (Eds.)

Microfinance, Risk-taking Behaviour and Rural Livelihood

Microfinance, risk taking behavior and rural livelihood are the three dominating issues in the rural financial landscape. Inadequate access to financial services is considered to be one of the main reasons behind inadequate economic opportunity and poverty in rural India. Microfinance has played a significant role in shaping the rural financial scenario. There is a need for micro-finance institutions to focus on a heterogeneous demand structure for the financial services provided to the rural poor. This book aims to provide an up-to-date and in-depth analysis of borrowing and risk taking behavior of rural people, which might help to design financial products and delivery of services[...]

Features

Microfinance, risk taking behavior and rural livelihood are the three dominating issues in the rural financial landscape. Inadequate access to financial services is considered to be one of the main reasons behind inadequate economic opportunity and poverty in rural India. Microfinance has played a significant role in shaping the rural financial scenario. There is a need for micro-finance institutions to [...]

Contents

Chapter 1: Structural Transformation of Rural Finance in India: A Critical Review.- Chapter 2: Risk Taking Behaviour in Financial Decision Making: A Village Level Study.- Chapter 3: Impacts of Caste, Risk, and Time Preference on Borrowing Behaviour: A Case Study in West Bengal, India.- Chapter 4: Microfinance and Rural Entrepreneurship: An Assessment.- Chapter 5: SHGs for Poverty Alleviation? Perspectives from a Tamil Nadu Village under Rapid Economic Development.- Chapter 6: Achievements and Challenges of SHG-Bank Linkage Program in India: The Result of Village Surveys in Andhra Pradesh[...]

Fields of interest

Finance / Banking; Financial Economics; Macroeconomics / Monetary Economics; Economic Growth; Agricultural Economics; Entrepreneurship

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-81-322-1283-6

Hardcover

2014. XXIII, 185 p. 27 illus.

99,99 €

ISBN 978-81-322-1283-6

usually dispatched within 3 to 5 business days

S.R. Chakravarty, Indian Statistical Institute, Kolkata, India

Inequality, Polarization and Poverty

Advances in Distributional Analysis

The study of inequality, polarization and poverty is crucial for understanding the economic well-being of the population of a country. Conceptual and methodological advances and better data have provided better insights into these issues in recent years, and it is the objective of the book to present a systematic and up-to-date treatment of the developments in the subject. Both welfare theoretic and descriptive approaches are discussed and, since the wellbeing of a population depends on income and non-income indicators, both unidimensional and multidimensional frameworks are taken into consideration. The technical terms and mathematical operations employed to analyze the results are[...]

Features

The study of inequality, polarization and poverty is crucial for understanding the economic well-being of the population of a country. Conceptual and methodological advances and better data have provided better insights into these issues in recent years, and it is the objective of the book to present a systematic and up-to-date treatment of the developments in the subject. Both welfare theoretic and [...]

Contents

The Measurement of Income Inequality.- Inequality and Income Poverty.- Measuring Income Depri- vation.- The Measurement of Income Polarization.- Multidimensional Approaches to Inequality Measurement.- The Measurement of Multidimensional Poverty.

Fields of interest

Econometrics; Development Economics; Statistics for Business, Economics, Mathematical Finance, Insurance

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-0-387-79252-1

Hardcover

2009. (Economic Studies in Inequality, Social Exclusion and Well-Being, Vol. 6)

129,99 €

ISBN 978-0-387-79252-1

usually dispatched within 3 to 5 business days

R.B. Dellink, Wageningen University & Wageningen, Netherlands; A. Ruijs, Wageningen University & Wageningen, Netherlands (Eds.)

Economics of Poverty, Environment and Natural-Resource Use

Reduction of poverty is a tremendous and persistent challenge for the global community. Given that the livelihood of millions is at stake, there is an urgent need to reconsider the causes of and the remedies for poverty. Poverty and its reduction are closely linked to the natural-resources base. The quality and bounty of the local environment certainly affect living conditions of the poor and their poverty is often seen as a contributing factor to the degraded condition of the local environment. Teasing apart the direction of causality in this resource-poverty nexus is a serious empirical challenge. This book contributes to an improved understanding of the economic dimensions of[...]

Features

Reduction of poverty is a tremendous and persistent challenge for the global community. Given that the livelihood of millions is at stake, there is an urgent need to reconsider the causes of and the remedies for poverty. Poverty and its reduction are closely linked to the natural-resources base. The quality and bounty of the local environment certainly affect living conditions of the poor and their poverty [...]

Contents

From the contents Searching for explanations for the resource-poverty nexus.- Payments for and values of environmental and forestry resources.- Sustainable land use.- List of contributors.

Fields of interest

Environmental Economics; Development Economics; Nature Conservation; Forestry Management; Agricultural Economics

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4020-8302-0

Hardcover

2008. VI, 212 p. (Wageningen UR Frontis Series, Vol. 25)

119,99 €

ISBN 978-1-4020-8302-0

usually dispatched within 3 to 5 business days

G.S. Fields, G. Pfeffermann (Eds.)

Pathways Out of Poverty

Private Firms and Economic Mobility in Developing Countries

Until recently, development economists tended to assume a role for private enterprise in reducing poverty, but they didn't articulate it explicitly. The new institutional economics literature, with its emphasis on transaction costs, addresses the environment in which private businesses operate in various countries - the "investment climate". Building on this new thinking, Pathways Out of Poverty begins by citing the worldwide drop in the number of very poor people and goes on to identify the ways in which private firms and farms contribute to economic mobility and poverty reduction and what governments can do to enhance this contribution. In four Parts, the editors and contributors[...]

Features

Until recently, development economists tended to assume a role for private enterprise in reducing poverty, but they didn't articulate it explicitly. The new institutional economics literature, with its emphasis on transaction costs, addresses the environment in which private businesses operate in various countries - the "investment climate". Building on this new thinking, Pathways Out of [...]

Fields of interest

Economics; Economic Growth; Development Economics; Political Science, general; Economic Policy

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-7412-7

Hardcover

2003. 300 p.

149,99 €

ISBN 978-1-4020-7412-7

usually dispatched within 3 to 5 business days

N. Ghosh, Institute of Economic Growth, New Delhi, India

India's Agricultural Marketing

Market Reforms and Emergence of New Channels

The proposed book provides an assessment of an important yet controversial policy initiated by the Indian government and governments of several other developing countries. Marketing reforms, it is claimed, can be a crucial answer to solving the problem of rural poverty in agrarian economies where large sections of populace are engaged in low paying agriculture. On a wider front, these reforms could help in providing growth impetus to an economy and even the global economy at large. Yet, the subject of liberalizing agricultural markets is also part of a broad and perhaps a bitter political debate between national and sub-national policy makers and academic discourses in India and[...]

Features

The proposed book provides an assessment of an important yet controversial policy initiated by the Indian government and governments of several other developing countries. Marketing reforms, it is claimed, can be a crucial answer to solving the problem of rural poverty in agrarian economies where large sections of populace are engaged in low paying agriculture. On a wider front, these reforms could help in [...]

Contents

Chapter 1 : Introduction.- Chapter 2: Evolution and re-constitution of Markets.- Chapter 3: International perspectives and Lessons for India.- Chapter 4: Objectives, Data and Methodology.- Chapter 5: India's Agricultural Markets: Regulation and revitalization.- Chapter 6: Contemporary reforms and the Transitions in Sample states.- Chapter 7 : Socio-economic conditions and Agriculture in Sample States.- Chapter 8: Selling to Corporate Marketing Intermediaries.- Chapter 9: Selling to Processors on Contract.- Chapter 10: Selling to Organized Retailers.- Chapter 11: Direct Marketing by[...]

Fields of interest

Agricultural Economics; Agriculture; Marketing

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-81-322-1571-4

Hardcover

2013. XV, 311 p. 13 illus. (India Studies in Business and Economics)

129,99 €

ISBN 978-81-322-1571-4

usually dispatched within 3 to 5 business days

December 31, 2013

A. Janvry, University of California, Berkeley, Berkeley, USA; R. Kanbur, Cornell University, Ithaca, USA (Eds.)

Poverty, Inequality and Development

Essays in Honor of Erik Thorbecke

Traditionally, there have been two strands in the analysis of poverty, inequality and development - a micro strand that focuses on individual behavior, welfare economics and the measurement of inequality and poverty; and a macro strand that analyzes economy-wide policies and the role of institutions. This unique volume brings together both strands in a series of essays written by leading experts in the field of economic development. Topics include measurement issues, micro-behavior determinants of poverty outcomes, economy-wide models in the SAM-CGE tradition and the institutional framework underlying macro policies.

Features

Traditionally, there have been two strands in the analysis of poverty, inequality and development - a micro strand that focuses on individual behavior, welfare economics and the measurement of inequality and poverty; and a macro strand that analyzes economy-wide policies and the role of institutions. This unique volume brings together both strands in a series of essays written by leading experts in the [...]

Contents

Poverty, Inequality and Development.- Erik Thorbecke: Growth and Roots.- On The Consistency of Poverty Lines.- Poverty Indices.- Should Poverty and Inequality Measures Be Combined?.- Equality of What? Evidence from India.- Household Investments in Education and Income Inequality at The Community Level: Evidence from Indonesia.- Poverty Traps and Safety Nets.- Progress in The Modeling of Rural Households' Behavior under Market Failures.- Labor Laws and Labor Welfare in The Context of The Indian Experience.- Macro Models and Multipliers: Leontief, Stone, Keynes, and CGE Models.- [...]

Fields of interest

Econometrics; Development Economics

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-7850-7

Hardcover

2006. XIII, 385 p. (Economic Studies in Inequality, Social Exclusion and Well-Being, Vol. 1)

184,99 €

ISBN 978-1-4020-7850-7

usually dispatched within 3 to 5 business days

P. Koundouri, Athens University of Economics and Business, Athens, Greece (Ed.)

Water Resources Allocation

Policy and Socioeconomic Issues in Cyprus

The dilemma facing Cyprus—that of limited water supplies (both in terms of quantity and quality) in the face of steadily increasing water demand, coupled with a fragmented institutional structure of the water sector—is characteristic of most arid and semi-arid countries all over the world. Another common characteristic of Cyprus is that the water management administrative boundaries there do not coincide with the hydrological ones, while the ongoing political problem of the island creates significant administrative problems.

Features

This book does not only aim to present and analyze the Cyprus experience in water resources management, using both local and world experts in the field. It also opts to communicate this experience to other countries that can inform, develop and improve their water resources policies by understanding the strong and weak elements of the Cyprus experience. The dilemma facing Cyprus—that of limited [..]

Contents

Dedication.- Acknowledgments.- List of Contributors.- 1. Introduction.- 2. Water Resources in Cyprus: Endowments and Water Management Practices.- 3. Water Use Patterns in Cyprus and Demand Management: Towards Water Resources Sustainability.- 4. The Implementation of the European Union Water Framework Directive in Cyprus.- 5. Water Management: Administration and Legislation.- 6. Water Policy Networks: A New Form of Governance for Cyprus? The Case for Nicosia.- 7. The Economics of Water Resource Allocation: Valuation Methods and Policy Implications.- 8. Integrated Water Resources Planning[...]

Fields of interest

Business & Economics (general); Water Policy / Water Governance / Water Management; Environment (general); Migration; Engineering Design; Science (general)

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-90-481-9824-5

Hardcover

2011. XVI, 164 p. (Global Issues in Water Policy, Vol. 1)

114,99 €

ISBN 978-90-481-9824-5

usually dispatched within 3 to 5 business days

N. Kraczy, WHU - Otto Beisheim School of Management, Vallendar, Germany

Innovations in Small and Medium-Sized Family Firms

An Analysis of Innovation Related Top Management Team Behaviors and Family Firm-Specific Characteristics

Small and medium-sized firms are a prevalent organizational form in Germany. Their importance for the German economy is indisputable. Most of them are global market leaders in their niches and are considered to be a force for innovation in the German economy. The ability to be innovative in niche markets has been identified as the antecedent of their strong, or even dominant, competitive positions in their industries. The driver of this innovation success may well be the family, which distinguishes family firms from non-family firms. But how can a family influence innovation in a family firm and does this influence have only positive effects? This dissertation focuses on the impact[...]

Features

Small and medium-sized firms are a prevalent organizational form in Germany. Their importance for the German economy is indisputable. Most of them are global market leaders in their niches and are considered to be a force for innovation in the German economy. The ability to be innovative in niche markets has been identified as the antecedent of their strong, or even dominant, competitive positions in their [..]

Contents

Family firms.- Innovation.- Top Management Teams.- Upper Echelon Theory.- Innovativeness.

Fields of interest

Business Strategy / Leadership

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-3-658-00062-2

Softcover

2013. XIX, 173 p. 13 illus. (Familienunternehmen und KMU)

56,07 €

ISBN 978-3-658-00062-2

usually dispatched within 3 to 5 business days

W. Leal Filho, Hochschule für Angewandte, Hamburg, Germany (Ed.)

Climate Change and the Sustainable Use of Water Resources

The book explores the geo-chemical, physical, social and economic impacts of climate change on water supplies. It contains examples and case studies from a wide range of countries, and addresses the need to promote sustainable water use across the world.

Features

The book explores the geo-chemical, physical, social and economic impacts of climate change on water supplies. It contains examples and case studies from a wide range of countries, and addresses the need to promote sustainable water use across the world.

Fields of interest

Environmental Economics; Climate Change Impacts; Sustainable Development; Climate Change; Hydrology / Water Resources

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-22265-8

Hardcover

2012. XII, 823 p. 190 illus. ()

199,95 €

ISBN 978-3-642-22265-8

usually dispatched within 3 to 5 business days

E. Leeuwen, Vrije Universiteit Amsterdam, Amsterdam, Netherlands

Urban-Rural Interactions

Towns as Focus Points in Rural Development

Modern Europe has rural roots. Even today, as much as 90 per cent of Europe (EU25) consists of rural areas in which half of the population lives. While different rural areas often face different challenges, the shift from agricultural production towards a multifunctional landscape and the increasing value assigned to environmental values affect all rural areas. The ambition to develop a more diversified rural economy, as well as the bottom-up approach and local focus of many rural policies, require a clear knowledge of the current socio-economic function of towns and town-hinterland linkages. Therefore, the aim of this study is to contribute to the understanding of the current[...]

Features

Modern Europe has rural roots. Even today, as much as 90 per cent of Europe (EU25) consists of rural areas in which half of the population lives. While different rural areas often face different challenges, the shift from agricultural production towards a multifunctional landscape and the increasing value assigned to environmental values affect all rural areas. The ambition to develop a more [..]

Contents

Introduction.- Town and Hinterland Interactions in Rural Areas.- Multifunctionality of Towns: Exploration of the Spatial Behaviour of Households.- Town-Hinterland Relations: A Social Accounting Matrix Approach.- A Meta-Analytic Comparison of Regional Output Multipliers at Different Spatial Levels: Economic Impacts of Tourism.- Microsimulation of Rural Households.- Future Developments in Rural Areas: Combining Micro and Macro.- Conclusion.

Fields of interest

Regional Science; Landscape, Regional and Urban Planning; Agricultural Economics

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-7908-2406-3

Hardcover

2010. XVI, 200p. 35 illus. (Contributions to Economics)

119,99 €

ISBN 978-3-7908-2406-3

usually dispatched within 3 to 5 business days

C.M. Lindow

A Strategic Fit Perspective on Family Firm Performance

Corinna M. Lindow substantiates, develops, and tests a strategic fit perspective on family firm performance in order to contribute to explaining previous inconclusive findings. In particular, she aims at investigating whether strategic fit determines family firm performance and what role family influence plays. Based on a sample of German family firms, the author indicates that, against expectations, family firms' performance is not driven by strategic fit but through the effective use of family-specific factors such as family business governance and family culture. Further, the results suggest that family influence has important implications for strategy, organizational structure,[...]

Features

Corinna M. Lindow substantiates, develops, and tests a strategic fit perspective on family firm performance in order to contribute to explaining previous inconclusive findings. In particular, she aims at investigating whether strategic fit determines family firm performance and what role family influence plays. Based on a sample of German family firms, the author indicates that, against expectations, family [..]

Contents

Family firms as research objects.- Literature review on family firm performance research.- A strategic fit perspective on family firm performance.- Empirical analyses regarding the association between family influence, strategic fit, and firm performance

Fields of interest

Business Strategy / Leadership

Target groups

Research

Type of publication

Ph.D. thesis

More on www.springer.com/978-3-8349-3356-0

Softcover

2013. XIX, 270 p. 34 illus.

46,68 €

ISBN 978-3-8349-3356-0

usually dispatched within 3 to 5 business days

L. Lipper, Food and Agriculture Organization of the, Roma, Italy; T. Sakuyama, Food and Agriculture Organization of the, Roma, Italy; R. Stringer, University of Adelaide, Glen Osmond, Australia; D. Zilberman, University of California, Berkeley, Berkeley, USA (Eds.)

Payment for Environmental Services in Agricultural Landscapes

Economic Policies and Poverty Reduction in Developing Countries

In recent years, development policy has responded to an increasing concern about natural resource degradation by setting up innovative payment for environmental services (PES) programs in developing countries. PES programs use market and institutional incentives in order to meet both environmental and poverty alleviation objectives. However, their optimal design, implications for the rural poor, and how these initiatives integrate into international treaties on global warming and biodiversity loss are still being discussed. This book addresses these issues by scrutinizing analytical tools, providing policy insights and stimulating debate on linkages between poverty alleviation and[...]

Features

In recent years, development policy has responded to an increasing concern about natural resource degradation by setting up innovative payment for environmental services (PES) programs in developing countries. PES programs use market and institutional incentives in order to meet both environmental and poverty alleviation objectives. However, their optimal design, implications for the rural poor, and how [..]

Contents

Introduction and Overview.- Putting Payments for Environmental Services in the Context of Economic Development.- Designing Payments for Environmental Services with Weak Property Rights and External Interests.- Marketing Environmental Services.- Experimental Economics and Environmental Services.- Economics of Carbon Sequestration Projects Involving Smallholders.- Conservation Payments to Reduce Wildlife Habitat Fragmentation and Disease Risks.- Payments for Ecosystem Services, Poverty and Sustainability: The Case of Agricultural Soil Carbon Sequestration.- Wildlife Conservation in[...]

Fields of interest

Agricultural Economics; Development Economics; Environmental Economics; Ecology; Environmental Management

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-387-72969-5

Hardcover

Jointly published with Food and Agriculture Organization of the United Nations

2009. (Natural Resource Management and Policy, Vol. 31)

129,99 €

ISBN 978-0-387-72969-5

usually dispatched within 3 to 5 business days

G. Müller-Christ, Universität Bremen, Bremen, Germany

Sustainable Management

Coping with the Dilemmas of Resource-Oriented Management

In this book, a resource-oriented perception of sustainable management is presented. Firms that decide to act more sustainable have to bear in mind that they do not only need resources for economic activities today, but that they will need these tomorrow as well. This leads to contradictory management rationalities firms must deal with. The author presents his findings as regards the development of environmental and social responsibility and introduces a theory of management ecology. He takes a close look at the contradictions businesses have to face when governing their activity towards sustainability. Moreover, he identifies different notions of the resource term in management[...]

Features

In this book, a resource-oriented perception of sustainable management is presented. Firms that decide to act more sustainable have to bear in mind that they do not only need resources for economic activities today, but that they will need these tomorrow as well. This leads to contradictory management rationalities firms must deal with. The author presents his findings as regards the development of [...]

Contents

Introduction. - Part I: Understanding Sustainability. - 1 Sustainability and Society. - 2 Quo Vadis, Environmental Management?. - 3 Quo Vadis, Social Responsibility?. - 4 Sustainability as Economic Rationality. - Part II: Theoretical Impulses. - 5 A Theory of Management Ecology. - 6 Dominant Management Rationalities and the Necessary Improvements for a More Sustainable Management. - 7 Coping with Contradictions as Core Problem of Modern and Sustainability-oriented Management Studies. - Part III: Sustainable Resource Management. - 8 The Use of the Term "Resource" in Management[...]

Fields of interest

Business & Management Science; Environmental Economics; Administration, Organization and Leadership; Environmental Management

Target groups

Upper undergraduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-642-19164-0

Hardcover

2011. XIX, 239p. 63 illus..

99,95 €

ISBN 978-3-642-19164-0

usually dispatched within 3 to 5 business days

J.A.E.E. Nunen, Erasmus University Rotterdam, Rotterdam, Netherlands; P. Huijbregts, DINALOG, Breda, Netherlands; P. Rietveld, Vrije Universiteit Amsterdam, Amsterdam, Netherlands (Eds.)

Transitions Towards Sustainable Mobility

New Solutions and Approaches for Sustainable Transport Systems

Delivering a sustainable transport system is not just a matter of adopting a number of technological innovations to improve performance in terms of people, planet, and profits. A broader structural and societal transition is needed in technology, as well as in institutions, behavioural patterns, and the economy as a whole. In this broader view, neither the free market nor the public sector will be the unique key player in making this transition happen. Elements of such an approach are presented in this book in a number of domains: integrating transport infrastructure and land use planning, thus connecting fields that are rather unconnected in day-to-day policies; experiments with[...]

Features

Delivering a sustainable transport system is not just a matter of adopting a number of technological innovations to improve performance in terms of people, planet, and profits. A broader structural and societal transition is needed in technology, as well as in institutions, behavioural patterns, and the economy as a whole. In this broader view, neither the free market nor the public sector will be the unique [...]

Contents

Preface.- Introduction.- Part A: Integrating Transport Infrastructure and Land Use Planning.- Part B: Experiment with Dynamic Transport Optimization.- Part C: Towards Reliable Transport Systems.- Part D: Sustainable Logistics and Traffic Management.

Fields of interest

Regional Science; Production / Logistics; Environmental Economics

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-21191-1

Hardcover

2011. XVI, 317p. 62 illus..

99,95 €

ISBN 978-3-642-21191-1

usually dispatched within 3 to 5 business days

G. Prain, Urban Harvest, La Molina, Lima, Peru; N. Karanja, Urban Harvest, CIP, Nairobi, Kenya; D. Lee-Smith, Mazingira Institute, Nairobi, Kenya (Eds.)

African Urban Harvest

Agriculture in the Cities of Cameroon, Kenya and Uganda

Over the past two decades, how has urban agriculture changed in sub-Saharan Africa? Is city farming now better integrated into environmental management and city governance? And, looking ahead, how might urban agriculture address the needs of the low-income households and modernizing cities of Africa? In this book, leading specialists in the fields of urban agriculture and urban environment present a unique collection of case studies that examines the growing role of local food production in urban livelihoods in sub-Saharan Africa. Amongst many issues, the authors probe the changing role of urban agriculture, the risks and benefits of crop-livestock systems, and the opportunities for[...]

Features

Over the past two decades, how has urban agriculture changed in sub-Saharan Africa? Is city farming now better integrated into environmental management and city governance? And, looking ahead, how might urban agriculture address the needs of the low-income households and modernizing cities of Africa? In this book, leading specialists in the fields of urban agriculture and urban environment present a unique [...]

Contents

The institutional and regional context.- Urban agriculture in Africa: what has been learned?- Urban farming systems in Yaoundé - building a mosaic.- Crop-livestock integration in the urban farming systems of Yaoundé.- Institutional development of urban agriculture - an ongoing history of Yaoundé.- Changing trends in urban agriculture in Kampala.- Can schools be agents of urban agriculture extension and seed production?- Identifying market opportunities for urban and peri-urban farmers in Kampala.- Health impact assessment of urban agriculture in Kampala.- Recycling nutrients from[...]

Fields of interest

Agricultural Economics; Development Economics; Economic Policy

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4419-6249-2

Hardcover

2010. XVI, 300p.

129,99 €

ISBN 978-1-4419-6249-2

usually dispatched within 3 to 5 business days

A.R. Quisumbing, International Food Policy Research Inst., Washington, USA; R. Meinzen-Dick, International Food Policy Research Inst., Washington, USA; T.L. Raney, FAO, Rome, Italy; A. Croppenstedt, FAO, Rome, Italy; J.A. Behrman, New York University, New York, USA; A. Peterman, University of North Carolina, Chapel Hill, USA (Eds.)

Gender in Agriculture

Closing the Knowledge Gap

The Food and Agriculture Organization of the United Nations (FAO) produced a 2011 report on women in agriculture with a clear and urgent message: agriculture underperforms because half of all farmers—women—lack equal access to the resources and opportunities they need to be more productive. This book builds on the report's conclusions by providing, for a non-specialist audience, a compendium of what we know now about gender gaps in agriculture.

Features

The Food and Agriculture Organization of the United Nations (FAO) produced a 2011 report on women in agriculture with a clear and urgent message: agriculture underperforms because half of all farmers—women—lack equal access to the resources and opportunities they need to be more productive. This book builds on the report's conclusions by providing, for a non-specialist audience, a compendium of what we [...]

Contents

PART I: Closing the Knowledge Gap on Gender in Agriculture.- 1. Closing the Knowledge Gap on Gender in Agriculture.- PART II: Data and Methods for Gender Analysis in Agriculture.- 2. Understanding Gender and Culture in Agriculture: The Role of Qualitative and Quantitative Approaches.- 3. Data Needs for Gender Analysis in Agriculture.- 4. If Women Hold Up Half the Sky, How Much of the World's Food Do They Produce?.- PART III: Gender, Assets, and Inputs: Issues at the Farm and Household Levels.- 5. The Gender Asset Gap and Its Implications for Agricultural and Rural Development.- 6. Gender[...]

Fields of interest

Development Economics; Agricultural Economics; Agriculture; Social Sciences (general); Gender Studies

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8615-7

Hardcover

2014. X, 440 p. In 2 volumes, not available separately.

129,99 €

ISBN 978-94-017-8615-7

Due: April 30, 2014

J.K. Sesabo, Mzumbe University, Mzumbe-Morogoro, Tanzania

Marine Resource Conservation and Poverty Reduction Strategies in Tanzania

Despite the social, nutritional, economical and environmental importance of Tanzanian coastal areas, yet they are vulnerable to both over-exploitation and degradation of their habitats. Using the data from two coastal villages and econometric methods as well as Stochastic Production Frontier techniques, the book demonstrates the extent which various socio-economic dimensions of rural coastal households influence livelihood pathways, production efficiency and attitudes towards conservation initiatives. Thus, attention to differential patterns of rural coastal households presents more viable possibilities for coastal villages to have conservation-development policies/programs that lead[...]

Features

The Tanzanian coastal areas are socially, nutritionally, economically and environmentally important, yet they are vulnerable to both over-exploitation and degradation of their habitats. This book demonstrates the extent which various socio-economic dimensions of rural coastal households influence livelihood pathways, production efficiency and attitudes towards conservation initiatives. It uses the data from [...]

Contents

Introduction and Overview.- Coastal Rural Households and Decision to Participate in Various Activities.- Small-scale Fishing Households and Technical Efficiency.- Households Attitudes Towards Marine Resource Conservation.- Conclusion.

Fields of interest

Environmental Economics; International Environmental Law; Environmental Management; Private International Law, International & Foreign Law, Comparative Law

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-69941-5

Softcover

2007. XIX, 133 p. 18 illus. (Hamburg Studies on Maritime Affairs, Vol. 8)

129,99 €

ISBN 978-3-540-69941-5

usually dispatched within 3 to 5 business days

M. Spoor (Ed.)

Globalisation, Poverty and Conflict

A Critical 'Development' Reader

Is 'development' passé? Is it merely a by-product or a 'trickle down' effect of economic growth, spurred by globalisation? Will poverty simply diminish with increased global markets? This state-of-the-art critical 'development' reader deals with these and related questions. Globalisation, Poverty and Conflict examines the inter-relationships between globalisation, poverty and conflict. It complements current debates in the field of development studies and, in an era in which development fatigue seems to have become more profound than ever before, it brings the importance of development once again to the forefront. Achieving the Millennium Development Goals by 2015 is a concrete target[...]

Features

Is 'development' passé? Is it merely a by-product or a 'trickle down' effect of economic growth, spurred by globalisation? Will poverty simply diminish with increased global markets? This state-of-the-art critical 'development' reader deals with these and related questions. Globalisation, Poverty and Conflict examines the inter-relationships between globalisation, poverty and conflict. It complements [...]

Contents

From the contents Abbreviations.- Introduction.- Part I: Globalisation, Inequality and Poverty.- Part II: Governance, Civil Society and Poverty.- Part III: Resource Degradation, Institutions and Conflict.- In Conclusion.- Contributors.- Index.

Fields of interest

Development Economics; Environment (general); Economic Growth; International Economics; Sustainable Development; Monitoring / Environmental Analysis

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-2857-1

Hardcover

2005. XXV, 339 p.

189,99 €

ISBN 978-1-4020-2857-1

usually dispatched within 3 to 5 business days

A. Torre, INRA, Paris CX 05, France; J.-B. Traversac, INRA, Ivry sur Seine, France (Eds.)

Territorial Governance

Local Development, Rural Areas and Agrofood Systems

This work aims to present the most recent developments regarding territorial governance, placing particular emphasis on rural and periurban areas. The reader will find information on the processes of development of European regions, as well as on the behaviours and strategies adopted by the different actors who live in these territories and contribute to the latter's livelihood. The first part of the book analyses the structural changes in the modes of production that have affected these territories. The second part addresses the questions of methodology and of the structures of governance of local development in rural areas. The last section makes an assessment of the geographical[...]

Features

This work aims to present the most recent developments regarding territorial governance, placing particular emphasis on rural and periurban areas. The reader will find information on the processes of development of European regions, as well as on the behaviours and strategies adopted by the different actors who live in these territories and contribute to the latter's livelihood. The first part of the book [...]

Contents

1 Introduction.- 2 Changing Trends in Rural Self-Employment in Europe and Turkey.- 3 A New Form of Small Industrial Business in Rural Area: To Exceeding the Local Roots?.- 4 The Modalities of Territorial Embeddedness of French Cooperative Groups.- 5 Strategies for Sustainable Regional Development and Conditions for Vital Coalitions in the Netherlands.- 6 Governance, Rural Development and Farmers' Participation in Irish Local Food Movements.- 7 Spatial Analysis for Policy Evaluation of the Rural World: Portuguese Agriculture in the Last Decade.- 8 Governance and Contested Land Use in the[...]

Fields of interest

Regional Science

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-7908-2421-6

Hardcover

2011. XXXIII, 207p. 6 illus..

99,95 €

ISBN 978-3-7908-2421-6

usually dispatched within 3 to 5 business days

A. Torre, INRA, Paris, France; F. Wallet, INRA, Paris, France

Regional Development in Rural Areas

Analytical Tools and Public Policies

This book intends to provide analytical and policy tools for investigating the question of the development of rural and peri-urban areas. The aim is to shed some light on this topic and in particular to contribute to a better understanding of the link between issues of regional or territorial development and issues of rural development. The text addresses the question of the disputed notions and definitions of rural development in rural and regional studies, examines the literature of regional and territorial development and the policies of regional development and planning. It also presents scenarios for the future of rural areas, with a focus on European territories.

Features

This book intends to provide analytical and policy tools for investigating the question of the development of rural and peri-urban areas. The aim is to shed some light on this topic and in particular to contribute to a better understanding of the link between issues of regional or territorial development and issues of rural development. The text addresses the question of the disputed notions and definitions [...]

Contents

Preface.- Introduction.- Chapter 1.- Chapter 2.- References.

Fields of interest

Regional Science; Landscape, Regional and Urban Planning; Economic Policy

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-3-319-02371-7

Softcover

2014. Approx. 110 p. (SpringerBriefs in Regional Science)

approx. 49,99 €

ISBN 978-3-319-02371-7

Due: June 2, 2014

U. Wagle, Western Michigan University, Kalamazoo, USA

Multidimensional Poverty Measurement

Concepts and Applications

Conceptualization and measurement of poverty have traditionally relied on purely economic approaches, with income or consumption as the only indicator. Multidimensional approaches have increasingly been used to understand poverty, but have yet to be fully operationalized. This book uses factor analysis and structural equations modelling to develop a multidimensional framework that integrates capability and social inclusion as additional poverty indicators. The empirical relevance of this methodological contribution is demonstrated through its application in the United States and Nepal. The proposed approach not only helps to identify different categories of the poor, but also to [...]

Features

Conceptualization and measurement of poverty have traditionally relied on purely economic approaches, with income or consumption as the only indicator. Multidimensional approaches have increasingly been used to understand poverty, but have yet to be fully operationalized. This book uses factor analysis and structural equations modeling to develop a multidimensional framework that integrates [...]

Contents

Introduction.- Three Related Approaches to Poverty Measurement.- Multidimensional Poverty Measurement.- Operational Framework of Multidimensional Poverty.- Case Study of Nepal.- Case Study of the United States.- Conclusion

Fields of interest

Development Economics; Labor Economics; Social Policy

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-0-387-75874-9

Hardcover

2008. (Economic Studies in Inequality, Social Exclusion and Well-Being, Vol. 4)

139,99 €

ISBN 978-0-387-75874-9

usually dispatched within 3 to 5 business days

T. Yamano, Foundation for Advanced Studies on Inter, Tokyo, Japan; K. Otsuka, National Graduate Institute for Policy S, Tokyo, Japan; F. Place, World Agroforestry Centre, Nairobi, Kenya (Eds.)

Emerging Development of Agriculture in East Africa

Markets, Soil, and Innovations

Emerging Development of Agriculture in East Africa offers case studies that find promise in many new innovations. Farmers in Uganda have quickly learned the management of NERICA rice (a new upland rice variety), which is being disseminated in a limited way in the region. Also in Uganda, farmers living in more remote areas have improved access to markets due to the expansion of mobile phones.

In Kenya, improved milk marketing systems have increased efficiency and led to tangible increases in the adoption of dairy production technologies. And the adoption of intensive dairy production systems in Kenya and Uganda are providing significant amounts of manure and positively impacting[...]

Features

Based on a coordinated panel study of more than 2,400 households in three countries—Kenya, Uganda, and Ethiopia—this book provides unprecedented insight into how agricultural productivity can be improved. Its vast coverage of over 240 different communities offers a wide variety of policy, market and agro-climatic contexts, thus enabling more certain conclusions to be drawn about which strategies are more [...]

Contents

Preface.- Part I: Introduction.- Part II: Market Access and Innovations.- Part III: Soil Fertility and Emerging Agricultural Innovations.- Part IV: Conclusion.- Index.

Fields of interest

Agricultural Economics; Development Economics; Economic Policy; Soil Science & Conservation; Sustainable Development

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-007-1200-3

Hardcover

2011. XVIII, 214p. 9 illus., 4 illus. in color.

149,99 €

ISBN 978-94-007-1200-3

usually dispatched within 3 to 5 business days

E.C. van Ierland, A.G. Oude Lansink, Wageningen University, Wageningen, Netherlands (Eds.)

Economics of Sustainable Energy in Agriculture

This book contains up-to-date studies on the economics of sustainable energy in agriculture. The studies focus on energy efficiency improvement and the use of biomass. Specific attention is paid to the economic aspects of land use and the competition for land, both for food production and dedicated energy crops. The book will be of special interest to economists, agronomists, energy experts, and politicians that deal with energy issues in agriculture, both in developing and industrialised countries. The book is relevant for those who are interested in the topic of global warming and carbon sequestration, and the transition towards carbon-free energy resources.

Features

This book contains up-to-date studies on the economics of sustainable energy in agriculture. The studies focus on energy efficiency improvement and the use of biomass. Specific attention is paid to the economic aspects of land use and the competition for land, both for food production and dedicated energy crops. The book will be of special interest to economists, agronomists, energy experts, and politicians [...]

Contents

From the contents: Part I: Energy use efficiency and intensity in agriculture.- Part II: Biomass production: Technical issue.- Part III: Biomass productions and land use.- Part IV: Agriculture and other sources of sustainable energy.- Part V: Scenarios and policies for sustainable energy.- Index.

Fields of interest

Environmental Economics; Agricultural Economics; Renewable and Green Energy; Environmental Management

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-0785-9

Hardcover

2002. VI, 250 p. (Economy & Environment, Vol. 24)

149,99 €

ISBN 978-1-4020-0785-9

usually dispatched within 3 to 5 business days

J. vom Brocke, S. Seidel, University of Liechtenstein, Vaduz, Liechtenstein; J. Recker, Queensland University of Technology, Brisbane, QLD, Australia (Eds.)

Green Business Process Management

Towards the Sustainable Enterprise

Green Business Process Management – Towards the Sustainable Enterprise" consolidates the global state-of-the-art knowledge about how business processes can be managed and improved in light of sustainability objectives. Business organizations, a dominant part of our society, have always been a major contributor to the degradation of our natural environment, through the resource consumption, greenhouse emissions, and waste production associated with their business processes. In order to lessen their impact on the natural environment, organizations must design and implement environmentally sustainable business processes. Finding solutions to this organizational design problem is the[...]

Features

Green Business Process Management – Towards the Sustainable Enterprise" consolidates the global state-of-the-art knowledge about how business processes can be managed and improved in light of sustainability objectives. Business organizations, a dominant part of our society, have always been a major contributor to the degradation of our natural environment, through the resource consumption, greenhouse [...]

Contents

Preface by Richard T. Watson.- Foreword.- Part I: Foundations and Directions.- Part II: Tools and Methods.- Part III: Cases and Examples.

Fields of interest

Business Information Systems; Organization / Planning; Environmental Management; Information Systems and Communication Service

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-27487-9

Hardcover

2012. XII, 263 p. 84 illus.

99,95 €

ISBN 978-3-642-27487-9

usually dispatched within 3 to 5 business days

Education

I. Ostner, Univ. Göttingen, Göttingen, Deutschland; C. Schmitt, ZENS, Göttingen, Deutschland (Eds.)

Family Policies in the Context of Family Change

The Nordic Countries in Comparative Perspective

Features

A better work-life balance for working parents has become an imperative social policy issue in most contemporary welfare states and sets two objectives: to increase flexible labour forces as well as the number of daycare facilities and to improve children's overall education. Drawing upon up-to-date empirical data, the volume provides detailed insights in policies targeting families, above all, women as (to [...])

Fields of interest

Education (general)

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-531-14564-8

Softcover

2008. 214S.

51,39 €

ISBN 978-3-531-14564-8

Currently out of stock, reprint ready for shipping 6 weeks.

M. Robertson, La Trobe University, Melbourne (Bundoora), Australia (Ed.)

Schooling for Sustainable Development:

A Focus on Australia, New Zealand, and the Oceanic Region

"This book *Schooling for Sustainable Development: A Focus on Australia, New Zealand and the Oceanic Region*, is the product of passionate interests of teachers, scholars and researchers located in diverse parts of the Australasian region. Working with their colleagues within local contexts they have conducted research and gathered together information for practitioners and students interested in learning more about sustainable lifestyle practices. Some of the work has taken place in remote locations and some has been in within the confines of major cities. The Australasian Region brings together people and cultures that link traditional economies to global networks and lifestyles.[...]

Features

"This book *Schooling for Sustainable Development: A Focus on Australia, New Zealand and the Oceanic Region*, is the product of passionate interests of teachers, scholars and researchers located in diverse parts of the Australasian region. Working with their colleagues within local contexts they have conducted research and gathered together information for practitioners and students interested [...]

Contents

Chapter 1: Introduction and regional overview: Margaret Robertson.- Chapter 2: Sustainability education in classrooms: Developing teacher expertise: Allan Harrison and Ken Purnell.- Chapter 3: Educating for sustainability in New Zealand: Pamela Williams.- Chapter 4: Defining and explaining sustainable development and sustainability: A review of curriculum guides and school texts: Alaric Maude.- Chapter 5: Contradictory practices and geographical imaginaries in the rolling out of education for sustainability in Auckland New Zealand secondary schools: Richard Le Heron, Nick Lewis and Amy[...]

Fields of interest

Educational Policy and Politics; Sustainable Development

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-2881-3

Hardcover

2012. XVII, 221p. 38 illus.. (Schooling for Sustainable Development, Vol. 3)

99,95 €

ISBN 978-94-007-2881-3

usually dispatched within 3 to 5 business days

Environment

N.O. Agola, J.L. Awange

Globalized Poverty and Environment

21st Century Challenges and Innovative Solutions

This book reviews the key conceptions and economic theories of poverty, explains poverty-environment nexus, and finally offers innovative socio-economic and scientific geospatial solutions for the 21st Century. The book makes it possible for our readers to understand poverty through a concise review of the major theoretical economic frameworks, measures of poverty, and points out the need to understand rural-urban dichotomy of poverty. We find the theories and measures to be less-than perfect and therefore point out the need to treat these measures and theories as convenient tools lacking perfect accuracy and utmost scientific reliability. It follows then that the supposedly[...]

Features

This book reviews the key conceptions and economic theories of poverty, explains poverty-environment nexus, and finally offers innovative socio-economic and scientific geospatial solutions for the 21st Century. The book makes it possible for our readers to understand poverty through a concise review of the major theoretical economic frameworks, measures of poverty, and points out the need to understand [...]

Contents

Poverty and Environmental Link.- Theoretical Framework for analyzing Poverty.- Economic Theories of Poverty and Poverty Eradication.- Traditional Measures of Poverty Lines.- Recent Developments.- The Human Development Perspective.- Emerging Conceptual Issues and Rural Urban Dichotomy.- New Conceptual Issues in the Measurement of Poverty and the Dichotomy of Urban and Rural Poverty.- Poverty and Income Inequality – Global Perspective.- Review of Global Poverty Eradication Solutions.- Environmental Disaster-poverty Link.- Degradation of Natural Resources.- Water, an[...]

Fields of interest

Environmental Management; Development Economics; Public Finance & Economics; Economic Policy; Sociology, general

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-39732-5

Hardcover

2014. XIX, 374 p. 83 illus., 80 illus. in color.

129,99 €

ISBN 978-3-642-39732-5

usually dispatched within 3 to 5 business days

B. Arts, P. Leroy (Eds.)

Institutional Dynamics in Environmental Governance

Environmental policy in its broadest context has been significantly revitalized and renewed during the last two decades. That observation is nothing new, attested to by the number of publications, conferences and both private and public projects that have been initiated. However, our understanding of the dynamics of this renewal has generally been informed by studies on single policies and projects, leaving us with a limited understanding of what the 'newness' consists of in terms of an integrated perspective. This book presents fresh analyses of a number of well-known cases, but does so from one comprehensive view, the so-called policy arrangement approach. Cases discussed range over[...]

Features

Environmental policy in its broadest context has been significantly revitalized and renewed during the last two decades. That observation is nothing new, attested to by the number of publications, conferences and both private and public projects that have been initiated. However, our understanding of the dynamics of this renewal has generally been informed by studies on single policies and projects, leaving [...]

Contents

About the Authors. List of tables. List of figures.- 1. Institutional Dynamics in Environmental Governance.- 2. Political Modernisation.- 3. The Dynamics of Policy Arrangements: Turning Round the Tetrahedron.- 4. The Governance Capacity of (new) Policy Arrangements: a Reflexive Approach.- 5. The Institutional Dynamics of Water Management in the Low Countries.- 6. High Noon in the Low Countries: Recent Nature Policy Dynamics in the Netherlands and in Flanders.- 7. Dynamics in Nature Policy Practices across the European Union.- 8. Diffusion or Diversity in Cultural Heritage Preservation?[...]

Fields of interest

Environmental Law / Policy / Ecojustice; Political Science, general

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-5078-7

Hardcover

2006. XIII, 290 p (Environment & Policy, Vol. 47)

129,99 €

ISBN 978-1-4020-5078-7

usually dispatched within 3 to 5 business days

M. Brueckner, A. Durey, Curtin University, Perth, Australia; R. Mayes, Curtin University, Perth, Australia; C. Pforr, Curtin University, Perth, Australia (Eds.)

Resource Curse or Cure ?

On the Sustainability of Development in Western Australia

Globalisation and rapid social and environmental change in recent decades have brought into sharper focus not only the benefits but also the costs of economic development. The once assumed link between economic development and societal well-being is being increasingly questioned in the face of growing social and environmental problems and unfulfilled expectations concerning political and commercial decision-makers. The orthodox development dogma is being tested in particular in resource-based economies such as Western Australia, where globalisation pressures and the concomitant rise in the demand for natural resources highlight the difficulties of effectively balancing broader[...]

Features

Globalisation and rapid social and environmental change in recent decades have brought into sharper focus not only the benefits but also the costs of economic development. The once assumed link between economic development and societal well-being is being increasingly questioned in the face of growing social and environmental problems and unfulfilled expectations concerning political and commercial [...]

Contents

Curse or Cure?.- The Politics of Development in Western Australia.- A Review of the Resources Sector in Western Australia.- Ethics of Deployment.- Resources, Global Production Networks and Regional Development.- CSR in the Resource Sector of Western Australia.- Gendered Dimensions of Resource Extraction.- Mining and Indigenous Socio-Economic Advancement.- Too Close to the Wheels of Progress: A Perspective on a Community's Experience.- Oil and Gas and Tourism in the West Kimberley, Australia.- Sustaining Local Communities: Mining Automation and Local Benefits.- Social Impacts of Fly-in[...]

Fields of interest

Sustainable Development; Development Economics; Environmental Economics; Environmental Law / Policy / Ecojustice; Political Economy

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-53872-8

Hardcover

2014. Approx. 400 p. (CSR, Sustainability, Ethics & Governance)

approx. 129,95 €

ISBN 978-3-642-53872-8

Due: May 30, 2014

C. Cabot

Climate Change, Security Risks, and Conflict Reduction in Africa

A Case Study of Farmer-Herder Conflicts over Natural Resources in Côte d'Ivoire, Ghana, and Burkina Faso

The environmental impacts of climate change represent challenges to the societies and are anticipated to contribute to the destabilization of their human security, endangering ways of life of human-beings and inducing conflicts. Vulnerable societies are likely to see a surge in conflicts and violence happen. However social, economic and political circumstances mediating environmental changes are fundamental and determine whether the societal challenge will be a conflictive one. In Western Africa, major environmental changes are expected and the region hosts especially vulnerable population groups (i.e. herders and farmers). Political factors might contribute to determining the[...]

Features

The environmental impacts of climate change represent challenges to the societies and are anticipated to contribute to the destabilization of their human security, endangering ways of life of human-beings and inducing conflicts. Vulnerable societies are likely to see a surge in conflicts and violence happen. However social, economic and political circumstances mediating environmental changes are fundamental [...]

Contents

From the Contents: Part 1: The climate induced Degradation and increased Scarcity of Resources as Factors challenging security.- Introduction into current Climate Change, Conflict Concerns and Farmer-Herder Conflicts.- Literature Review: Causal Linkages between Environmental Change and Conflict.- Part 2: Theoretical Background: The Importance of Political Factors in a precarious Human and Environmental Security challenged by global, regional and local Environmental Changes.- Theoretical Prisms: Human and Environmental Security and Conflict Reduction.- The Role of Political Factors in[...]

Fields of interest

Environmental Law / Policy / Ecojustice; Climate Change Management and Policy; Political Science, general; Economic Geography

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-3-642-29236-1

Softcover

2014. Approx. 50 p. 17 illus., 13 illus. in color. (Springer-Briefs in Environment, Security, Development and Peace, 5)

approx. 49,95 €

ISBN 978-3-642-29236-1

Due: July 15, 2014

J. Dodson, Australian Nuclear Science & Meai, Australia (Ed.)

Changing Climates, Earth Systems and Society

The book covers state-of-the-art considerations on how climate change has and will deliver impacts on major globalised biophysical and societal themes that will affect the way the world functions. Human activity has resulted in changes to atmospheric chemistry and land cover, and caused serious decline in biodiversity. Modifying biogeochemical cycles leads to complex feedbacks. The future climate will have impact on food security and agriculture, water supply and quality, storm and cyclone frequency, shoreline stability, biodiversity and the future of biological resources. Earth scientists might be asked to forecast any potential abrupt or environmental surprises. A sound knowledge of[...]

Features

The book covers state-of-the-art considerations on how climate change has and will deliver impacts on major globalised biophysical and societal themes that will affect the way the world functions. Human activity has resulted in changes to atmospheric chemistry and land cover, and caused serious decline in biodiversity. Modifying biogeochemical cycles leads to complex feedbacks. The future climate will [...]

Contents

1. Introduction. Setting the Scene: How Do We Get to a Fitting Future?- 2. Impacts of Climate Change on Terrestrial Ecosystems and Adaptation Measures for Natural Resource Management.- 3. Fire in the Earth System.- 4. Vanishing Polar Ice Sheets.- 5. Climate and Peatlands.- 6. Climate and Lacustrine Ecosystems.- 7. Rivers.- 8. Climate Change and Desertification.- 9. Climate Change, Societal Transitions and Changing Infectious Disease Burdens.- 10. Don't We All Want Good Weather and Cheap Food?- 11. Building Capacity to Cope with Climate Change in the Least Developed Countries.- 12. Climate Change[...]

Fields of interest

Climate Change; Climate Change Management and Policy; Physical Geography

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-90-481-8715-7

Hardcover

2010. XX, 244 p. (International Year of Planet Earth)

99,95 €

ISBN 978-90-481-8715-7

usually dispatched within 3 to 5 business days

M. Etienne, INRA, Morières les Avignon, France (Ed.)

Companion Modelling

A Participatory Approach to Support Sustainable Development

This book introduces the companion modelling approach by presenting the stance that underpins it, the methods and tools used with stakeholders and the specific role of models during the process. It addresses the means to deal with the different levels of decision-making and to take into account the various power relationships. It proposes a methodology to assess the impact of the approach on the stakeholders involved in the process. The book includes 27 case studies and 7 teaching tools that describe the successful use of the approach in a variety of settings or teaching contexts. It is intended for researchers working on rural development or renewable resources management, as well as [...]

Features

Sustainable development, including how to involve stakeholders in deciding the future for the land where they live or work, is a crucial current issue. However, the meanings given to both terms – development and sustainable – are so diverse and controversial that a clear methodology is required to establish participatory approaches for the management of renewable natural resources. Companion modelling is [...]

Contents

Foreword.- Acknowledgements.- Introduction.- Chapter 1 Companion modelling: a method of adaptive and participatory research.- Chapter 2 The companion stance: interpersonal skills and expertise.- Chapter 3 Models for sharing representations.- Chapter 4 Contexts and dependencies in ComMod processes.- Chapter 5 Power asymmetries in companion modelling processes.- Chapter 6 Assessment and monitoring of the effects of the ComMod approach.- Chapter 7 How do participants view the technologies used in companion modelling.- Chapter 8 ComMod: engaged research's contribution to sustainable[...]

Fields of interest

Sustainable Development; Monitoring / Environmental Analysis; Environmental Management

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8556-3

Hardcover

Original French edition published by Éditions Quæ, Versailles, 2012. Jointly published with Éditions Quæ, Versailles, France

2014. XII, 403 p. 72 illus., 35 illus. in color.

129,99 €

ISBN 978-94-017-8556-3

Due: January 31, 2014

P. Golinska, M. Hajdul, Institute of Logistics and Warehousing, Poznan, Poland (Eds.)

Sustainable Transport

New Trends and Business Practices

The aim of the book is to present the emerging environmental issues in organization and management of transport logistics. The scope of the book includes set of solutions which show different stakeholders' viewpoints on sustainability. It points out how the transport operations organized and conducted in companies and regions might be consistent with the concept of sustainable development. The scope of the book takes into consideration trade-off relations between actors directly and indirectly involved in transport networks. Therefore, the authors present, in individual chapters, innovative approach to eco-friendly organization and coordination of transport processes, as well as [...]

Features

The aim of the book is to present the emerging environmental issues in organization and management of transport logistics. The scope of the book includes set of solutions which show different stakeholders' viewpoints on sustainability. It points out how the transport operations organized and conducted in companies and regions might be consistent with the concept of sustainable development. The scope of the [...]

Contents

On the way to sustainability in the transport sector.- Collaboration models for sustainable transport.- Information systems and information management supporting sustainable transport.- Intermodal transport and models for CO2 reduction.

Fields of interest

Environmental Engineering / Biotechnology; Sustainable Development; Production / Logistics

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-23549-8

Hardcover

2012. X, 346p. 104 illus. (EcoProduction)

129,95 €

ISBN 978-3-642-23549-8

usually dispatched within 3 to 5 business days

J.C. Ingram, Wildlife Conservation Society, Bronx, USA; F. DeClerck, CATIE, Turrialba, Costa Rica; C. Rumbaitis del Rio, The Rockefeller Foundation, New York, USA (Eds.)

Integrating Ecology and Poverty Reduction

The Application of Ecology in Development Solutions

The second volume of this series, Integrating Ecology into Global Poverty Reduction Efforts: Opportunities and solutions, builds upon the first volume, Integrating Ecology into Global Poverty Reduction Efforts: The ecological dimensions to poverty, by exploring the way in which ecological science and tools can be applied to address major development challenges associated with rural poverty. In volume 2, we explore how ecological principles and practices can be integrated, conceptually and practically, into social, economic, and political norms and processes to positively influence poverty and the environment upon which humans depend. Specifically, these chapters explore how ecological[...]

Features

Integrating Ecology and Poverty Reduction offers a timely assessment of the current and potential role of ecological science and tools for contributing to poverty reduction. The chapters in the first volume, Ecological Dimensions, address the ecological aspects of major development challenges and the contributions of ecological science to solving these problems. In the second volume, [...]

Contents

Chapter 1. Introduction: Changing Societal Paradigms-Education and Gender as Critical Starting Points, Authors:Fabrice DeClerck and Jane Carter Ingram.- Chapter 2: Changing Societal Paradigms-Education and Gender as Critical Starting Points: Education, Ecology and Poverty Reduction, Authors: Robin Sears and Angela M. Stewart.- Chapter 3: Changing Societal Paradigms-Education and Gender as Critical Starting Points: Why Gender Matters to Ecological Management and Poverty, Author: Isabelle Guttierrez.- Chapter 4. Introduction to Population Growth, Ecology and Poverty, Author: Alex de[...]

Fields of interest

Environmental Management; Sustainable Development; Environmental Law / Policy / Ecojustice; Applied Ecology

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-0185-8

Hardcover

2012. XVI, 325p. 46 illus., 28 illus. in color.

129,95 €

ISBN 978-1-4614-0185-8

usually dispatched within 3 to 5 business days

S. Jentoft, University of Tromsø, Tromsø, Norway; A. Eide, University of Tromsø, Tromsø, Norway (Eds.)

Poverty Mosaics: Realities and Prospects in Small-Scale Fisheries

Small-scale fisheries are a major source of food and employment around the world. Yet, many small-scale fishers work in conditions that are neither safe nor secure. Millions of them are poor, and often they are socially and politically marginalized. Macro-economic and institutional mechanisms are essential to address these poverty and vulnerability problems; however, interventions at the local community level are also necessary. This requires deep understanding of what poverty means to the fishers, their families and communities; how they cope with it; and the challenges they face to increase resiliency and improve their lives for the better. This book provides a global perspective,[...]

Features

Small-scale fisheries are a major source of food and employment around the world. Yet, many small-scale fishers work in conditions that are neither safe nor secure. Millions of them are poor, and often they are socially and politically marginalized. Macro-economic and institutional mechanisms are essential to address these poverty and vulnerability problems; however, interventions at the local [...]

Contents

Chapter 1 - Setting the Stage By Svein Jentoft and Arne EideIntroduction.- Chapter 2 - Avoiding Poverty Chapter 2 - Avoiding Poverty Distributing Wealth in FisheriesBy Arne Eide, Maarten Bavinck and Jesper Raakjær.- Chapter 3 - Situating Poverty A Chain Analysis of Small-Scale FisheriesBy Ratana Chuenpagdee and Svein Jentoft.- Chapter 4 - The Meaning of PovertyConceptual Issues in Small-Scale Fisheries ResearchBy Svein Jentoft and Georges Midré.- Chapter 5 - Living on the MarginThe Poverty-Vulnerability Nexus in the Small-Scale Fisheries of BangladeshBy Mohammad Mahmudul[...]

Fields of interest

Sustainable Development; Social Sciences (general); Environmental Management; Environmental Law / Policy / Ecojustice

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-1581-3

Hardcover

2011. XXXI, 510p. 77 illus., 54 illus. in color.

129,95 €

ISBN 978-94-007-1581-3

usually dispatched within 3 to 5 business days

C.F. Jordan, University of Georgia, Athens, USA

An Ecosystem Approach to Sustainable Agriculture

Energy Use Efficiency in the American South

Modern industrial agriculture is not sustainable because of its heavy reliance on petroleum, a non-renewable source of the energy used in farming, and because of pollution caused by petroleum products such as fertilizers and pesticides. A systems analysis of farming suggests that agriculture will be more sustainable when services of nature, such as nutrient recycling by soil micro-organisms and natural controls of insects, replace the services now provided by energy from petroleum. Examples are drawn from the Southeastern USA, but lessons learned can be applied worldwide.

Features

For economic reasons, farmers generally strive to maximize short-term agricultural yield (energy output) through energy subsidies in the form of fertilizers and pesticides. When these subsidies are used inefficiently they result in water and air pollution, soil erosion, extinction of beneficial insects, spread of disease, and disappearance of ground water reservoirs. The key to agricultural [...]

Contents

A Systems (Holistic) Approach to Sustainable Agriculture.- A History of Unsustainability in Agriculture.- Political and Economic Challenges to Creating a Sustainable Agriculture.- Energetic Services of Nature That Increase Agricultural Sustainability.- Applied Tools and Practices For Sustainable Agriculture.- An Economic, Ecological, and Cultural Evaluation of Agriculture in The American South.- Case Studies of Contemporary, Sustainable Farms in the South.- Holism vs. Reductionism in Agricultural Science.- Appendices.

Fields of interest

Sustainable Development; Agriculture; Environmental Management; Ecosystems; Applied Ecology; Conservation Biology / Ecology

Target groups

Graduate

Type of publication

Monograph

More on www.springer.com/978-94-007-6789-8

Hardcover

2013. XVI, 247 p. 36 illus., 24 illus. in color. (Environmental Challenges and Solutions, Vol. 1)

99,99 €

ISBN 978-94-007-6789-8

usually dispatched within 3 to 5 business days

J.K. Ladha, Internat. Rice Research Institute, Manila, Philippines; M.B. Peoples (Eds.)

Management of Biological Nitrogen Fixation for the Development of More Productive and Sustainable Agricultural Systems

Extended versions of papers presented at the Symposium on Biological Nitrogen Fixation for Sustainable Agriculture at the 15th Congress of Soil Science, Acapulco, Mexico, 1994

The subsistence agriculture of the pre-chemical era efficiently sustained the nitrogen status of soils by maintaining a balance between N loss and N gain from biological nitrogen fixation (BNF): the microbial conversion of atmospheric N to a form usable by plants. This was possible with less intensive cropping, adaptation of rational crop rotations and intercropping schemes, and the use of legumes as green manure. Modern agriculture concentrates on maximum output, however, overlooking input efficiency; It is not sustainable. Intensive monocropping, with no or inadequate crop rotations or green manuring, together with the excessive use of chemical N fertilizers, results in an[...]

Features

The subsistence agriculture of the pre-chemical era efficiently sustained the nitrogen status of soils by maintaining a balance between N loss and N gain from biological nitrogen fixation (BNF): the microbial conversion of atmospheric N to a form usable by plants. This was possible with less intensive cropping, adaptation of rational crop rotations and intercropping schemes, and the use of legumes as [...]

Fields of interest

Soil Science & Conservation; Plant Sciences; Plant Physiology; Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-3413-2

Hardcover

1995. VI, 291 p. (Developments in Plant and Soil Sciences, Vol. 65)

194,95 €

ISBN 978-0-7923-3413-2

usually dispatched within 3 to 5 business days

N.C.S. Lambek, P. Claeys, University of Louvain, Louvain-la-Neuve, Belgium; A. Wong, R.L. Brilmayer, Yale Law School, New Haven, USA (Eds.)

Rethinking Food Systems

Structural Challenges, New Strategies and the Law

Taking as a starting point that hunger results from social exclusion and distributional inequities and that lasting, sustainable and just solutions are to be found in changing the structures that underlie our food systems, this book examines how law shapes global food systems and their ongoing transformations. Using detailed case studies, historical mapping and legal analysis, the contributors show how various actors (farmers, civil society groups, government officials, international bodies) use or could use different legal tools (legislative, jurisprudential, norm-setting) on various scales (local, national, regional, global) to achieve structural changes in food systems. Section 1.[...]

Features

Taking as a starting point that hunger results from social exclusion and distributional inequities and that lasting, sustainable and just solutions are to be found in changing the structures that underlie our food systems, this book examines how law shapes global food systems and their ongoing transformations. Using detailed case studies, historical mapping and legal analysis, the contributors show how various [...]

Contents

Introduction: In Search of Better Options: Food Sovereignty, the Right to Food and Legal Tools for Transforming Food Systems.- Part I: Institutionalizing New Approaches to Managing Food Systems and Addressing Hunger.- Via Campesina's Struggle for the Right to Food Sovereignty: From Above or From Below?.- Opportunities and Challenges for Food Sovereignty Policies in Latin America: The case of Nicaragua.- Implementing the Right to Food in Uganda: Advances, Challenges and the Way Forward.- Part II: Regulating for Change.- Respecting and Protecting the Right to Food: When States Must Get[...]

Fields of interest

Sustainable Development; Human Rights; Social Structure, Social Inequality; Public International Law; Sources and Subjects of International Law, International Organizations; Political Economy

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7777-4

Hardcover

2014. XVIII, 244 p.

99,99 €

ISBN 978-94-007-7777-4

Due: December 31, 2013

M. Lara, Ecole Nationale des Ponts et Chaussées, Marne-la-Vallée, France; L. Doyen, Museum National d'Histoire Naturelle, Paris, France

Sustainable Management of Natural Resources

Mathematical Models and Methods

This book demonstrates and develops the quantitative and formal links between sustainability issues, decision and precaution problems in the management of natural resources. Applied concerns include fisheries, agriculture, biodiversity, exhaustible resources and pollution. The book aims at combining economic and ecological dimensions through an integrated modelling framework. Mathematical or numerical models and methods presented here rely on control theory of dynamical systems. They encompass equilibrium and stability, viability and invariance, intertemporal optimality ranging from discounted utilitarian to Rawlsian criteria. Deterministic, stochastic and robust frameworks are[...]

Features

This book demonstrates and develops the quantitative and formal links between sustainability issues, decision and precaution problems in the management of natural resources. Applied concerns include fisheries, agriculture, biodiversity, exhaustible resources and pollution. The book aims at combining economic and ecological dimensions through an integrated modelling framework. Mathematical or numerical [...]

Contents

From the contents Sequential Decision Models.- Equilibrium and Stability.- Viable Sequential Decisions.- Optimal Sequential Decisions.- Sequential Decisions under Uncertainty.- Robust and Stochastic Viability.- Robust and Stochastic Optimization.- Sequential Decision under Imperfect Information.- Appendix. Mathematical Proofs.- Index.

Fields of interest

Monitoring / Environmental Analysis; Math. Appl. in Environmental Science; Sustainable Development

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-79073-0

Hardcover

2008. (Environmental Science)

129,99 €

ISBN 978-3-540-79073-0

usually dispatched within 3 to 5 business days

L. Lebel, Chiang Mai University, Chiang Mai, Thailand; S. Lorek, SERI Deutschland e.V., Overath, Germany; R. Daniel, Chiang Mai University, Chiang Mai, Thailand (Eds.)

Sustainable Production Consumption Systems

Knowledge, Engagement and Practice

Sustainable Production Consumption Systems brings together a set of designed case studies intended to provide a more in-depth understanding of challenges and opportunities in bringing knowledge and actions closer together for the sustainable management of specific production and consumption systems. The case study approach enabled researchers to engage directly with some of the actors involved in the production, consumption or regulation of specific goods or services and other stakeholders affected by those processes. Such engagement was particularly worthwhile when it helped mobilize actors to pursue linking knowledge with action in ways that improve the prospects for sustainability.

Features

Sustainable Production Consumption Systems brings together a set of designed case studies intended to provide a more in-depth understanding of challenges and opportunities in bringing knowledge and actions closer together for the sustainable management of specific production and consumption systems. The case study approach enabled researchers to engage directly with some of the actors involved in the [...]

Contents

1. Production-Consumption Systems and the Pursuit of Sustainability.- 2. Cultivating Consumer Restraint in an Ecologically Full World: The Case of "Take Back Your Time".- 3. Sustainability Transitions through the Lens of Lifestyle Dynamics.- 4. Emerging Challenges of Consumer Activism: Protecting Consumers and Advocating Sustainable Consumption in Developing Countries.- 5. Sustainability in the Electricity Production and Consumption System - A Consumers' Perspective.- 6. Agrofuels in Thailand: Policies, Practices and Prospects.- 7. Enabling Sustainable Shrimp Aquaculture: Narrowing the [...]

Fields of interest

Environment (general); Sustainable Development; Social Sciences (general)

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-90-481-3089-4

Hardcover

2010. VIII, 278p. 27 illus.

114,99 €

ISBN 978-90-481-3089-4

usually dispatched within 3 to 5 business days

K.L. Maharjan, Hiroshima University, Higashi-Hiroshima, Japan; N.P. Joshi, Hiroshima University, Higashi-Hiroshima, Japan

Climate Change, Agriculture and Rural Livelihoods in Developing Countries

This book is about climate change and its relation to agriculture and rural livelihoods. It starts by providing a basic understanding of climate change science followed by the relation of climate change to agriculture, the impact of which is discussed based on the particular impact of climate change on plant and animal physiology. The book further discusses the inclusion of the agriculture sector in various international climate change negotiations. It also reviews the cost and opportunities for agricultural projects through international climate change regimes, specifically the Clean Development Mechanism under the Kyoto Protocol. With this background, the book finally proceeds to an [...]

Features

This book is about climate change and its relation to agriculture and rural livelihoods. It starts by providing a basic understanding of climate change science followed by the relation of climate change to agriculture, the impact of which is discussed based on the particular impact of climate change on plant and animal physiology. The book further discusses the inclusion of the agriculture sector in various [...]

Contents

Background information on climate change and agriculture.- Global scenario of greenhouse gas emission.- Effects of climate change on plant and animal physiology.- Agriculture in international climate change negotiations.- Cost and opportunities from mitigation and adaptation in agriculture.- Methodologies to assess the impact of climate change in agriculture.- Effects of climate change on regional agriculture production, food price and food insecurity.- Climate change in Nepalese context: Impacts, mitigation issues, and relation with poverty.- Effect of climate variables on yield of [...]

Fields of interest

Climate Change; Climate Change Impacts; Agriculture; Landscape, Regional and Urban Planning

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-4-431-54342-8

Hardcover

2013. X, 176 p. 45 illus., 19 illus. in color. (Advances in Asian Human-Environmental Research)

99,99 €

ISBN 978-4-431-54342-8

usually dispatched within 3 to 5 business days

A.A. Marta-Costa, University of Trás-os-Montes and Alto Do, Vila Real, Portugal; E. L. D. G. Soares da Silva, University of Azores, Angra do Heroísmo, Portugal (Eds.)

Methods and Procedures for Building Sustainable Farming Systems

Application in the European Context

Showing how the method of sustainability assessment plays a key role in choosing the best agricultural productive mode, this book guides the reader through the process of selecting, from among the various approaches for building farming systems, the method of decision-making that will result in the most appropriate outcome, given the context. Case studies hail from politics as diverse as Portugal and Canada, Argentina and Lebanon. The work thus offers a valuable critical survey of the assessment methods that account for sustainability and economics, and which have developed considerably in the last two decades. The heterogeneous approaches covered here make this volume appropriate for [...]

Features

This urgent publication surveys the latest research and methodologies combining efficiency in agricultural food production with sustainability in the same systems. Growing pressures on food production seem contrapuntal to the ever-stronger imperatives of sustainability. How can agriculture balance successes in both productivity and ecology? Sustainability is a dynamic concept, seeking to achieve a [...]

Contents

Acknowledgments.- Preface.-1. The Needs for Building Sustainable Farming Systems: Issues and Scope.- Part I European Context for Sustainability Assessment Of Farming Systems.-2. Agricultural and Environmental Policies in the European Union.-3. Approaches for Sustainable Farming Systems Assessment.- Part II Multiple Aspects to Develop Methodologies for Sustainability Assessment of Farming Systems.-4. Normative, Systemic and Procedural Aspects: A Review of Indicator-Based Sustainability Assessments in Agriculture.-5. Assessing the Sustainability of Activity Systems to Support Households' [...]

Fields of interest

Sustainable Development; Agricultural Economics; Agriculture; Operation Research / Decision Theory

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5002-9

Hardcover

Kind permission was given by Elsevier Limited, Oxford, UK for the use of chapters 4 and 6

2013. XXIII, 277 p. 47 illus., 5 illus. in color.

99,95 €

ISBN 978-94-007-5002-9

usually dispatched within 3 to 5 business days

R.W. Myster, University of Central Oklahoma, Edmond, USA (Ed.)

Post-Agricultural Succession in the Neotropics

Post-agricultural studies have been central to the development of both the science of plant ecology and ecology in general. The study of old field succession allows us to observe the development of the structure and function of communities, as well as understand the role of history and initial conditions in that process. Understanding old field succession can help the public address important scientific and social issues, such as deforestation and forest regeneration, forest restoration, sustainability of agriculture, maintenance of biodiversity, and impacts of global climate change on forest dynamics. Post-Agricultural Succession in the Neotropics draws implications from scientific[...]

Features

Post-agricultural studies have been central to the development of both the science of plant ecology and ecology in general. The study of old field succession allows us to observe the development of the structure and function of communities, as well as understand the role of history and initial conditions in that process. Understanding old field succession can help the public address important scientific and [...]

Contents

Patterns of Living and Non-Living Components of Old Fields after Abandonment.- Introduction.- Trends in Above and Belowground Carbon with Forest Regrowth after Agricultural Abandonment in the Neotropics.- Post Sugar Cane Succession in Moist Alluvial Sites in Puerto Rico.- Soil Fungi and Macrofauna in the Neotropics.- Earthworms and Post-Agricultural Succession.- Mechanisms and Tolerances that Cause Plant-Plant Replacements, Producing Old Field Vegetation Patterns.- Factors Affecting The Species Richness and Composition of Neotropical Secondary Succession: A Case Study of Abandoned[...]

Fields of interest

Environmental Management; Plant Ecology; Landscape Ecology; Applied Ecology; Nature Conservation; Soil Science & Conservation

Target groups

Research

Type of publication

Professional book

More on www.springer.com/978-0-387-33641-1

Hardcover

2008.

129,99 €

ISBN 978-0-387-33641-1

usually dispatched within 3 to 5 business days

K. Otsuka, National Graduate Institute for Policy S, Minato, Japan; D.F. Larson, World Bank, Washington, USA (Eds.)

An African Green Revolution

Finding Ways to Boost Productivity on Small Farms

This volume explores the usefulness of the Asian model of agricultural development for Africa, where, even before the recent world food crisis, half the population lived on less than on dollar a day, and a staggering one in three people and one third of all children were undernourished. Africa has abundant natural resources; agriculture provides most of its jobs, a third of national income and a larger portion of total export earnings. However the levels of land and labor productivity rank among the worst in the world. The book explains Africa's productivity gap and proposes ways to close it, by examining recent experience in Africa and by drawing on lessons from Asia.

Features

This volume explores the usefulness of the Asian model of agricultural development for Africa, where, even before the recent world food crisis, half the population lived on less than on dollar a day, and a staggering one in three people and one third of all children were undernourished. Africa has abundant natural resources; agriculture provides most of its jobs, a third of national income and a larger [...]

Contents

Contents:- 1. An Overview .- Part I: Climate and the Transferability of Asian Green Revolution to Sub-Saharan Africa.- 2. Lessons from the Asian Green Revolution in Rice.- 3. The Possibility of a Rice Green Revolution in Large-Scale Irrigation Schemes in Sub-Saharan Africa.- 4. The Declining Impacts of Climate on Crop Yields during the Green Revolution in India, 1972-2002.- 5. The Impact of Technological Changes on Crop Yields in Sub-Saharan Africa, 1967 to 2004.- Part II: Prospects for Upland Rice and Maize Green Revolution in Sub-Saharan Africa.- 6. Causes and Consequences of NERICA[...]

Fields of interest

Environmental Engineering / Biotechnology; Agricultural Economics; Economic Policy; Development Economics

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5759-2

Hardcover

2013. XVIII, 300 p. 24 illus., 20 illus. in color.

99,95 €

ISBN 978-94-007-5759-2

usually dispatched within 3 to 5 business days

A. Piorr, Zentrum für Agrarlandschafts- und, Münchenberg, Germany; K. Müller, Zentrum für Agrarlandschafts- und, Münchenberg, Germany (Eds.)

Rural Landscapes and Agricultural Policies in Europe

The reform of the European agricultural policy aims at stimulating the development of European towards more sustainability and more competitiveness in global markets, by ensuring environmental soundness, supporting rural viability and better meeting consumers demands. Parallel to this farming in the ever growing EU is undergoing major changes. The conditions for production are occurring faster than ever, including developments such as climate change, new markets (bioenergy), structural changes and ageing rural societies. Agriculture in an ever changing Europe has to develop multifunctional regional strategies. About 40 scientists from 11 European research institutions compiled this[...]

Features

The reform of the European agricultural policy aims at stimulating the development of European towards more sustainability and more competitiveness in global markets, by ensuring environmental soundness, supporting rural viability and better meeting consumers demands. Parallel to this farming in the ever growing EU is undergoing major changes. The conditions for production are occurring faster than ever, [...]

Fields of interest

Environmental Law / Policy / Ecojustice; Nature Conservation; Agriculture; Political Science, general; Landscape, Regional and Urban Planning; Biogeosciences

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-540-79469-1

Hardcover

2009. XXIII, 313p.

149,99 €

ISBN 978-3-540-79469-1

usually dispatched within 3 to 5 business days

J. Richards, University of Alberta, Edmonton, Canada (Ed.)

Mining, Society, and a Sustainable World

This is the first book of peer-reviewed, edited papers that examines the broad subject of the minerals industry in relation to sustainable development. The book takes a proactive, positivist, and solution-oriented approach, while not shying away from identifying the real problems that mining raises in respect to social and economic development, environmental impact, and human development in general.

Features

This is the first book of peer-reviewed, edited papers that examines the broad subject of the minerals industry in relation to sustainable development. The book takes a proactive, positivist, and solution-oriented approach, while not shying away from identifying the real problems that mining raises in respect to social and economic development, environmental impact, and human development in general.

Contents

From the contents Opportunities for improvement in environmental performance in the minerals supply chain using life cycle approaches: the role of fuel and lubricant suppliers. The challenge of mineral wealth: Using resource endowments to foster sustainable development. Applications of stakeholder engagement and eco-efficiency in the Australian mining and minerals processing industry. Proposed Hierarchy of Natural Resources with Respect to Sustainable Development as a Basis to Derive a Meaningful Natural Resources Efficiency Indicator. Extractive economies, growth spells, and the[...]

Fields of interest

Sustainable Development; Mineral Resources; Environmental Economics; Renewable and Green Energy

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-3-642-01102-3

Hardcover

2010. XXV, 506 pages with 60 illus including 6 color figures

149,99 €

ISBN 978-3-642-01102-3

usually dispatched within 3 to 5 business days

F.K. Vosniakos, Alexander Technological Education, Thessaloniki, Greece

Radioactivity Transfer in Environment and Food

The book deals with various consequences of major nuclear accidents, such as in 1986 in Chernobyl and in 2011 in Fukushima. The public is extremely interested in learning more about the movements and risks posed by radiation in the environment related to food supply and food safety. Radionuclides are found in air, water, soil and even in us not only after nuclear accidents because they occur also in nature. Every day, we ingest and inhale radionuclides in our air and food and the water. This book provides a solid underpinning of the basic physical-chemistry and biogeochemistry of naturally occurring and anthrop radioactivity. The mechanisms of radioactive element transfer in the[...]

Features

The book deals with various consequences of major nuclear accidents, such as in 1986 in Chernobyl and in 2011 in Fukushima. The public is extremely interested in learning more about the movements and risks posed by radiation in the environment related to food supply and food safety. Radionuclides are found in air, water, soil and even in us not only after nuclear accidents because they occur also in nature. [...]

Contents

Status of the Problem.- Mechanisms of Radioactive Elements Transfer in the Atmosphere.- Environmental Contamination from Accidents.- The Impact of Atmospheric Pollution on the Food Chain – Soil, Plants, Food.- Formulation of Purposes and Tasks.- Methods and Materials of Analysis.- Methods for Analysis of Atmospheric Radioactivity.- Methods for Analysis of the Impact of Atmospheric Contamination on the Food Chain – Soil, Plants, Food.- Results and Discussions.- Studies on Atmospheric and Environmental Radioactivity.- Transfer of Atmospheric Radioactivity in Soil and Plants.- Transfer of[...]

Fields of interest

Effects of Radiation / Radiation Protection; Geochemistry; Analytical Chemistry; Freshwater & Marine Ecology; Food Science; Physical Chemistry

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-28740-4

Hardcover

2012. XVI, 148p. 89 illus., 35 illus. in color. (Environmental Science and Engineering)

99,95 €

ISBN 978-3-642-28740-4

usually dispatched within 3 to 5 business days

Geography

M. Agnoletti, DEISTAF, University of Florence, Firenze, Italy (Ed.)

Italian Historical Rural Landscapes

Cultural Values for the Environment and Rural Development

Sustainable development and rural policies have pursued strategies where farming has been often regarded as a factor deteriorating the ecosystem. But the current economic, social and environmental problems of the Earth probably call for examples of a positive integration between human society and nature. This research work presents more than a hundred case studies where the historical relationships between man and nature have generated, not deterioration, but cultural, environmental, social and economic values. The results show that is not only the economic face of globalization that is negatively affecting the landscape, but also inappropriate environmental policies. The CBD-UNESCO[...]

Features

Over the last few decades, sustainable development and rural development policies have pursued strategies where farming has often been regarded as a factor disturbing or deteriorating the ecosystem. But the current economic, social and environmental problems of the Earth probably call for a different perspective. We should look for examples of a positive integration between human society and nature, study [...]

Contents

1. The Italian historical rural landscapes: dynamics, data analysis and research findings (Mauro Agnoletti).- 2. Assessing the integrity of the historical landscapes. Three case studies in some terraced areas (Mauro Agnoletti, Antonio Santoro, Lorenzo Gardin).- 3. The role of historical rural landscapes in territorial planning (Alberto Magnaghi).- 4. Rural landscapes: the historical roots of biodiversity (Roberta Cevasco, Diego Moreno).- 5. Landscape and economy (Tiziano Tempesta).- 6. Valle d'Aosta.- 7. Piedmont.- 8. Liguria.- 9. Lombardy.- 10. Trentino – Alto Adige.- 11. Friuli Venezia[...]

Fields of interest

Landscape, Regional and Urban Planning; Landscape Ecology; History; Agriculture; Forestry; Environmental Management

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5353-2

Hardcover

2013. XIV, 549 p. 258 illus., 130 illus. in color. (Environmental History, Vol. 1)

129,95 €

ISBN 978-94-007-5353-2

usually dispatched within 3 to 5 business days

I. Bowler, University of Leicester, Bowler, United Kingdom; C.R. Bryant, Australian National University, Canberra, Australia; C. Cocklin (Eds.)

The Sustainability of Rural Systems

Geographical Interpretations

Economy, society, and environment comprise the three main dimensions of sustainable development but too often they are considered separately. This book, by comparison, examines the interaction of the three dimensions in the context of rural systems, embracing a wide range of topics, including globalisation and reregulation in sustainable food production, conservation and sustainability, the development of sustainable rural communities, and sustainable rural-urban interaction. An international team of geographers, drawn from the International Geographical Union's Commission on The Sustainability of Rural Systems, summarises the basis of unsustainable rural development in these topics, [...]

Features

Economy, society, and environment comprise the three main dimensions of sustainable development but too often they are considered separately. This book, by comparison, examines the interaction of the three dimensions in the context of rural systems, embracing a wide range of topics, including globalisation and reregulation in sustainable food production, conservation and sustainability, the development of [...]

Contents

Preface.- List of Contributors.- 1. Introduction.- 2. Developing indicators of 'sustainability'.- 3. Nature, society and sustainability.- 4. The 'wild', the market and the native: indigenous issues in wildlife utilisation and management.- 5. Globalisation, food regimes and rural networks.- 6. Restructuring, regulation and sustainability.- 7. Enterprises and commodity chains.- 8. Conservation and sustainability.- 9. Sustainable farming systems.- 10. Planning for sustainable rural land use systems.- 11. Rural population and services.- 12. Sustainable rural communities and rural [...]

Fields of interest

Geography (general); Environmental Management; Economic Growth; Agriculture

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-0513-8

Softcover

2002. XIII, 282 p. (GeoJournal Library, Vol. 66)

154,95 €

ISBN 978-90-481-5978-9

usually dispatched within 3 to 5 business days

A.S. Khattak, University of Balochistan, Quetta, Pakistan

Mutual Sustainability of Tubewell Farming and Aquifers

Perspectives from Balochistan, Pakistan

This book develops and presents a conceptual model for sustainable-groundwater irrigated agriculture. The model is based on the general principles of the economic theories of cost-benefit relations and behavioral models of resource use. The study has evaluated the advances in tubewell farming and the aquifer potential in arid Balochistan over a period of three decades. It has analyzed the booms and busts of the farming over time taking into consideration the local aquifer limitations and the socio-political considerations and policy framework. Three data sets – farmers, expert officials, and satellite images – have been used to aid validation. By observing the most vital parameters, [...]

Features

This book develops and presents a conceptual model for sustainable-groundwater irrigated agriculture. The model is based on the general principles of the economic theories of cost-benefit relations and behavioral models of resource use. The study has evaluated the advances in tubewell farming and the aquifer potential in arid Balochistan over a period of three decades. It has analyzed the booms and busts of [...]

Contents

Introduction.- Conceptual Framework and Literature Review.- Environmental Profile of the Study Area. Material and Methods.- Results and Discussion: Part A.- Results and Discussion: Part B.- Conclusion, Key Findings and Suggestions.

Fields of interest

Physical Geography; Water Policy / Water Governance / Water Management; Agriculture; Sustainable Development

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-02803-3

Hardcover

2014. XX, 160 p. 149 illus., 44 illus. in color. (Advances in Asian Human-Environmental Research)

approx. 99,99 €

ISBN 978-3-319-02803-3

Due: June 30, 2014

T. Kidokoro, University of Tokyo, Tokyo, Japan; N. Harata, University of Tokyo, Tokyo, Japan; L.P. Subanu, J. Jessen, A. Motte, E.P. Seltzer (Eds.)

Sustainable City Regions:

Space, Place and Governance

How should regional cities develop regional development strategies for their sustainable future? How can such strategies work effectively? Regional cities are now at a crossroads: will they decline or be regenerated under the impacts of globalization? Their sustainable regeneration as creative regional centers will play a decisive role in their sustainable development as a whole, but only with viable regional spatial strategies that strengthen the network of cities and their hinterlands. The concern here lies in urban regeneration and strategic spatial planning at the city-region level. This book records observations of 12 dynamically changing regional cities in Asia, Europe and the [...]

Features

How should regional cities develop regional development strategies for their sustainable future? How can such strategies work effectively? Regional cities are now at a crossroads: will they decline or be regenerated under the impacts of globalization? Their sustainable regeneration as creative regional centers will play a decisive role in their sustainable development as a whole, but only with viable [...]

Contents

Preface Tetsuo Kidokoro List of Contributors Part I. Introduction 1. New Directions in Urban Regeneration and the Governance of City Regions Tetsuo Kidokoro, Akito Murayama, Kensuke Katayama and Norihisa Shima 2. Strategy for a Sustainable Transportation System in City Regions: Strategic Approaches and Consensus Building Noboru Harata Part II. China, Korea, Indonesia, Thailand 3. Governing Urban Development in Dualistic Societies: A Case Study of the Urban Region of Yogyakarta, Indonesia Leksono Probo Subanu 4. Problems and Prospects for Sustainable Regeneration of Traditional [...]

Fields of interest

Landscape, Regional and Urban Planning; Environmental Management

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-4-431-78146-2

Hardcover

2008. XII, 334p. 98 illus. (cSUR-UT Series: Library for Sustainable Urban Regeneration, Vol. 7)

89,99 €

ISBN 978-4-431-78146-2

usually dispatched within 3 to 5 business days

K. Maharjan Lall (Ed.)

Communities and Livelihood Strategies in Developing Countries

Sustainability of rural communities is threatened by a plethora of factors including climate change and disasters which interact in an intricate manner in making rural people vulnerable and poor. This book is the output of empirical research on communities and livelihood strategies in developing countries. It reveals how rural communities are functioning and earning their livelihoods by making the best use of the resources, local/internal or external/new and the combination of the two to counteract the various challenges they face, with the ultimate goal of becoming resilient to local or global shocks and sustaining that resilience. Local governance is identified as crucial in[...]

Features

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Contents

Communities and Livelihood Strategies: An Overview.- Climate Change Impact on Revenue of Major Food Crops in Ghana: Structural Ricardian Cross-Sectional Analysis.- Climate Variables and their Impacts on Yield of Food Crops in Makwanpur and Ilam District of Nepal.- Adoption of Improved Rice Varieties in the Tarai Region of Nepal.- Effects of Environmental Factors on Cattle Milk Production among Smallholder Households in Ala-Buka, Kyrgyzstan.- Farmer's Perception on Impact of Organic Farming on Yield and Income of Vegetables: A Case Study in Kathmandu Valley and Chitwan District of[...]

Fields of interest

Landscape, Regional and Urban Planning; Climate Change Impacts; Sustainable Development; Agriculture; Quality of Life Research; Natural Hazards

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-4-431-54773-0

Hardcover

2014. 200 p. 38 illus., 34 illus. in color.

approx. 99,99 €

ISBN 978-4-431-54773-0

Due: May 31, 2014

S. Mann, Agroscope, Ettenhausen, Switzerland (Ed.)

The Future of Mountain Agriculture

Mountain agriculture is a socially and culturally unique system, but also a regionally important economic sector. In a globalising world, it is clear that fertile areas on all continents will always be used to produce large quantities of agricultural products in order to feed the world and, increasingly, provide biomass as a source of energy. It is far less clear, however, how land use in steep and more peripheral regions will evolve. By definition, farmland in mountain areas is more difficult to work because of steep slopes and missing accessibility. Climate conditions and poor soil quality often add to these adverse conditions. Through overcoming limited views from one region only[...]

Features

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Contents

Introduction.- Land Use and Landscape Change in the Rockies: Implications for Mountain Agriculture.- Conservation Agriculture in the Andean Highlands: Promise and Precautions.- Enhancing crop diversity and livelihood security in the Andes through the emergence of agricultural innovation systems.- The future of agriculture in the High Atlas Mountains of Morocco: The need to integrate traditional ecological knowledge.- Climate Change and the future of Mountain Farming on Mt. Kilimanjaro.- Is mountain farming no longer viable? - The complex dynamics of farming abandonment in the[...]

Fields of interest

Landscape, Regional and Urban Planning; Sustainable Development; Agriculture

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-33583-9

Hardcover

2013. VI, 176 p. 30 illus. (Springer Geography)

99,95 €

ISBN 978-3-642-33583-9

usually dispatched within 3 to 5 business days

H. Zerriffi, University of British Columbia, Vancouver, Canada

Rural Electrification

Strategies for Distributed Generation

For those in developed nations, suddenly being without electricity is a disaster: power cuts have us fretting over the food stored in the freezer, and even a few hours without lights, televisions, or air conditioning is an ordeal. However, for an estimated 1.6 billion people worldwide, the absence of electricity is their daily experience. An untold number of others live with electricity that is erratic and of poor quality. How can electric power be brought into their lives when the centralized utility models that have evolved in developed nations are not an economically viable option? Poor, rural communities in developing nations cannot simply be 'plugged in' to a grid. Small-scale[...]

Features

For those in developed nations, suddenly being without electricity is a disaster: power cuts have us fretting over the food stored in the freezer, and even a few hours without lights, televisions, or air conditioning is an ordeal. However, for an estimated 1.6 billion people worldwide, the absence of electricity is their daily experience. An untold number of others live with electricity that is erratic and [...]

Contents

Part 1. Introduction. 1. Rethinking Rural Electrification.- Part 2. Research design and Results. 2. Distributed Rural Electrification Study Methods.- 3. Distributed Rural Electrification in Brazil.- 4. Distributed Rural Electrification in Cambodia.- 5. Distributed Rural Electrification in China.- 6. Understanding Success and Failure in Distributed Electrification.- Part 3. Moving Beyond Rhetoric and Failure to Electrify the World.- 7. The Dangers of Cheap Universal Service and a Vision for Distributed Electrification.- 8. Paying for the Vision: New Financial Models for Distributed[...]

Fields of interest

Economic Geography

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-90-481-9593-0

Hardcover

2011. XII, 203p. 7 illus., 2 illus. in color.

114,99 €

ISBN 978-90-481-9593-0

usually dispatched within 3 to 5 business days

Life Sciences

P. Ahmad, Sri Pratap College, Srinagar, India; M.R. Wani, Govt. Degree College (Boys), Anantnag, India; M.M. Azooz, South Valley University, Qena, Egypt; L.-S.P. Tran, RIKEN Center for Sustainable, Yokohama, Japan (Eds.)

Improvement of Crops in the Era of Climatic Changes

Volume 2

Nearly 70% of people suffering from hunger live in rural areas, therefore the most relevant work in plant science is on increasing agricultural productivity. This is a key factor in reducing the number of those suffering from hunger. This challenge comes at a time when the plant sciences are witnessing remarkable progress in understanding fundamental processes of plant growth and development. However, at the same time the growth rate of global crops is declining quickly. This emphasizes the urgency of finding better ways to translate the new advances in plant science into concrete successes in agricultural production. A fairly big gap exists among scientists between fundamental theory[...]

Features

Nearly 70% of people suffering from hunger live in rural areas, therefore the most relevant work in plant science is on increasing agricultural productivity. This is a key factor in reducing the number of those suffering from hunger. This challenge comes at a time when the plant sciences are witnessing remarkable progress in understanding fundamental processes of plant growth and development. However, at [...]

Contents

Improving nutrient deficiency tolerance in rice.- Ozone stress in Plants: Present scenario and future prospects.- Stomatal responses to drought stress.- Brassica and heavy metal stress.- Chickpea and abiotic stress.- Molecular breeding for improving abiotic stress tolerance in rice.- Soil pollutants: effects and approaches to detoxification including Phytoremediation.- Recent advances in rapid and sensitive screening for abiotic stress tolerance.- Drought tolerance in plants: Biochemical and Molecular Approach.- Induced Mutations for the Improvement of Pulse Crops with Special[...]

Fields of interest

Plant Sciences; Plant Physiology; Plant Breeding / Biotechnology; Plant Biochemistry; Cell Biology; Earth System Sciences

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-8823-1

Hardcover

2014. 300 p.

approx. 154,99 €

ISBN 978-1-4614-8823-1

Due: July 2014

M. Behnassi, Ibn Zohr University of Agadir, Agadir, Morocco; S.A. Shahid, International Center for Biosaline Agric, Dubai, United Arab Emirates; J. D'Silva, Compassion for World Farming, Goldalming, United Kingdom (Eds.)

Sustainable Agricultural Development

Recent Approaches in Resources Management and Environmentally-Balanced Production Enhancement

Due to many challenges (i.e. climate change, energy, water and land shortage, high demands on food, land grabbing, etc.), agriculture production potential is expected to be seriously affected; thus, increasing food insecurity and hunger in many already affected regions (especially in Africa). In this context, sustainable agriculture is highly recommended as an eco-system approach where soil, water, plants, environment and living organisms live in harmony. Innovative technologies and research should be developed to ensure sustainable agriculture and productivity using modern irrigation systems, improved varieties, improved soil quality, etc. In the meantime, the preservation of[...]

Features

Due to many challenges (i.e. climate change, energy, water and land shortage, high demands on food, land grabbing, etc.), agriculture production potential is expected to be seriously affected; thus, increasing food insecurity and hunger in many already affected regions (especially in Africa). In this context, sustainable agriculture is highly recommended as an eco-system approach where soil, water, plants, [...]

Contents

List of acronyms and abbreviation.- List of figures.- List of table.- Preface.- Acknowledgments.- Part I Sustainable use of land resources as a potential for sustainable agricultural development.- Part II Sustainable management of water resources as a prerequisite.- for sustainable agriculture development.- Part III Recent innovative processes in agricultural production.- Part IV Recent innovative processes in livestock production.- Postface.- Notes on contributors.- Author index.- Subject index.

Fields of interest

Agriculture; Sustainable Development; Environmental Management; Soil Science & Conservation; Animal Ecology

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-0518-0

Hardcover

2011. XL, 278p. 20 illus. in color.

114,99 €

ISBN 978-94-007-0518-0

usually dispatched within 3 to 5 business days

S. Bellon, INRA, Avignon Cedex 09, France; S. Penvern, INRA, Avignon Cedex 09, France (Eds.)

Organic farming, prototype for sustainable agricultures

Stakeholders show a growing interest for organic food and farming (OF&F), which becomes a societal component. Rather than questioning whether OF&F outperforms conventional agriculture or not, the main question addressed in this book is how, and in what conditions, OF&F may be considered as a prototype towards sustainable agricultures. The book gathers 25 papers introduced in a first chapter. The first section investigates OF&F production processes and its capacity to benefit from the systems functioning to achieve higher self-sufficiency. The second one proposes an overview of organic performances providing commodities and public goods. The third one focuses on organics development[...]

Features

Various stakeholders have shown a growing interest in organic food and farming (OF&F), which has become a widespread issue at all levels of society. However, much debate still arises about the value of OF&F as a model for sustainable agriculture. Rather than questioning whether organic farming performs better or not than conventional farming, the main question addressed in this book is how and under [...]

Contents

Preface.- 1. Introduction: Organic food and Farming, Prototype for Sustainable Agriculture.- PART 1 - SYSTEM'S FUNCTIONING TO IMPROVE SELF-SUFFICIENCY.- 1.1 Organic Landcare and Fertility.- 2. Soil phosphorus (P) management in organic cropping systems: from current practices to avenues for a more efficient use of P resource.- 3. Intercropping - applying ecological principles for improved nitrogen use efficiency in organic farming systems.- 1.2 Crop Protection in Organic Farming.- 4. Regulatory framework for plant protection in organic farming.- 5. Conservation biocontrol: Principles and[...]

Fields of interest

Agriculture; Ecology; Sociology, general; Plant Sciences; Food Science; Veterinary Medicine

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7926-6

Hardcover

2014. I, 574 p.

149,99 €

ISBN 978-94-007-7926-6

Due: January 31, 2014

R. Billard

The Carp

Biology and Culture

As a group, carp provide 4 million metric tonnes of fish annually - over a quarter of all fish culture worldwide. For the first time, a book is available in English that concentrates solely on the carp as an economic rather than an ornamental fish with a panel of international experts producing a comprehensive, practical volume about carp production and management. Starting with a brief look at the biology of cyprinids, the book then discusses the methods and management of carp farming, from water quality to the economics of fish production in ponds. Novel methods to improve stock, including genetic engineering, are covered and case studies give added value to the text. As carp[...]

Features

As a group, carp provide 4 million metric tonnes of fish annually - over a quarter of all fish culture worldwide. For the first time, a book is available in English that concentrates solely on the carp as an economic rather than an ornamental fish with a panel of international experts producing a comprehensive, practical volume about carp production and management. Starting with a brief look at the biology of [...]

Contents

Biology of the Cyprinids.- Aquatic Ecosystem and Water Quality.- Reproduction.- Genetic Improvements.- Juvenile Rearing.- Ongrowing in Ponds.- The Creation of Ponds.- Processing and the Markets.- The Economics of Fish Production in Ponds.- Appendices.- Index.

Fields of interest

Zoology; Biomedicine (general)

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-85233-118-4

Hardcover

Jointly published with Praxis Publishing, UK 1999. XV, 342 pp. (Aquaculture and Fisheries)

194,95 €

ISBN 978-1-85233-118-4

usually dispatched within 3 to 5 business days

J. Blahovec, M. Kutlek (Eds.)

Physical Methods in Agriculture

Approach to Precision and Quality

The papers in this book deal with both the physical theories and their applications in the full broad range of agriculture: soils, their parameters and transport processes, soil technology, precision agriculture, agricultural products and their processing, testing and storage and products, genetic modification of agricultural plants. In all those subjects the physical aspects are studied. The majority of the papers belong to the category of interdisciplinary sciences. The papers are divided into three groups. In the first group are papers dealing with soil physical properties. The research was aimed at direct observation of soil porous systems from which the appropriate theory of [...]

Features

The papers in this book deal with both the physical theories and their applications in the full broad range of agriculture: soils, their parameters and transport processes, soil technology, precision agriculture, agricultural products and their processing, testing and storage and products, genetic modification of agricultural plants. In all those subjects the physical aspects are studied. The majority of the [...]

Contents

From the contents: Part 1: Soil and Allocation Agriculture.- Part 2: Properties and Quality.- Part 3: Fruits.- Index.

Fields of interest

Agriculture; Soil Science & Conservation; Plant Sciences; Chemistry (general); Environmental Engineering / Biotechnology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-306-47430-9

Hardcover

2002. XVII, 454 p.

249,00 €

ISBN 978-0-306-47430-9

usually dispatched within 3 to 5 business days

G. Boonman

East Africa's grasses and fodders: Their ecology and husbandry

This book is based on more than 1000 references to English and French articles produced in the region over many decades. A comprehensive review of the achievements in farming and research in both wet and dryland is given, related to the grasslands of: Eastern Africa, extending from Malawi to Eritrea, including Ethiopia, Kenya, Uganda, Tanzania, Somalia, Zambia, Rwanda, Burundi, Sudan and eastern Zaire. Sown grasses, within the time-proven system of mixed-farming based on crop-grass rotations. Fodders, e.g. Elephant grass, dryland-Sorghum, lucerne, Leucaena, tropical legumes and hay. £ The main objectives of the book are to illustrate the value of East African [...]

Features

This book is based on more than 1000 references to English and French articles produced in the region over many decades. A comprehensive review of the achievements in farming and research in both wet and dryland is given, related to the grasslands of: Eastern Africa, extending from Malawi to Eritrea, including Ethiopia, Kenya, Uganda, Tanzania, Somalia, Zambia, Rwanda, Burundi, Sudan and [...]

Fields of interest

Plant Ecology; Animal Ecology; Agriculture

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-1867-5

Hardcover

1993. XVII, 343 p. (Tasks for Vegetation Science, Vol. 29)

344,00 €

ISBN 978-0-7923-1867-5

usually dispatched within 3 to 5 business days

D.P. Chaudhary, Indian Agricultural Research Institute, New Delhi, India; S. Kumar, Natl Bureau of Plant Genetic Resources, New Delhi, India; S. Singh, Indian Agricultural Research Institute, New Delhi, India (Eds.)

Maize: Nutrition Dynamics and Novel Uses

Maize is a globally important crop mainly utilized as feed, food and raw material for diverse industrial applications. Among cereals, it occupies third place after rice and wheat and is a staple food for a large segment of population worldwide particularly in the Asian as well as African countries. This monogram discusses various aspects of nutritional quality of maize such as quality protein maize which has been considered as most significant discovery in enhancing nutritional quality of cereals in terms of increasing the concentration of essential amino acids. The biochemistry of starch which is an important industrial product of maize has been discussed in detail. Further, the role[...]

Features

Maize is a globally important crop mainly utilized as feed, food and raw material for diverse industrial applications. Among cereals, it occupies third place after rice and wheat and is a staple food for a large segment of population worldwide particularly in the Asian as well as African countries. This monogram discusses various aspects of nutritional quality of maize such as quality protein maize which has [...]

Contents

Section A: Introductory chapter.- 1. Nutritive value of maize: Improvements, applications and constraints.- Section B: Protein quality of maize.- 2 Breeding challenges and perspectives in developing and promoting quality protein maize germplasm.- 3 Maize protein quality and its improvement- development of quality protein maize (QPM) in India.- 4 Molecular interventions for enhancing the protein quality of maize.- Section C: Nutritional quality of maize.- 5 Maize: Grain structure, composition, milling and starch characteristics.- 6 Oil improvement in maize: potential and[...]

Fields of interest

Agriculture; Plant Biochemistry; Protein Science; Climate Change; Food Science

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-81-322-1622-3

Hardcover

2014. X, 161 p. 27 illus., 17 illus. in color.

139,99 €

ISBN 978-81-322-1622-3

usually dispatched within 3 to 5 business days January 31, 2014

P. Christou, Universitat de Lleida/ICREA, Lleida, Spain; R. Savin, Universitat de Lleida, Lleida, Spain; B. Costa-Pierce, University of New England, Biddeford, USA; I. Misztal, University of Georgia, Athens, USA; B. Whitelaw, University of Edinburgh, Midlothian, United Kingdom (Eds.)

Sustainable Food Production

Population growth in the coming decades will put severe pressure on human food, animal feed, and fiber production from both land and ocean ecosystems. Environmental sustainability and social justice are increasingly important elements in debates on how to ensure adequate food for a growing global population. Gathering approximately 90 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, Sustainable Food Production provides comprehensive coverage of this vital area of current research. Sections on animal breeding and genetics for food, crop science and technology, ocean farming and sustainable aquaculture science and technology, and transgenic[...]

Features

Population growth in the coming decades will put severe pressure on human food, animal feed, and fiber production from both land and ocean ecosystems. Environmental sustainability and social justice are increasingly important elements in debates on how to ensure adequate food for a growing global population. Gathering approximately 90 peer-reviewed entries from the Encyclopedia of Sustainability Science [...]

Contents

From the Contents: Part I Animal Breeding and Genetics for Food.- Animal Breeding and Genetics, Introduction.- Animal Breeding Methods and Sustainability.- Animal Breeding, Foundations of Animal Breeding, Long-Term Challenges.- Animal Breeding, Modeling in.- Animal Genetic in Environment Interaction.- Part II Crop Science and Technology.- Abiotic Stress Tolerant Crops: Genes, Pathways and Bottlenecks.- Biomass Crops for Biofuels and Bio-based Products.- Biotechnology and Nutritional Improvement of Crops.- Part III Ocean Farming and Sustainable Aquaculture Science and Technology.- [...]

Fields of interest

Agriculture; Food Science; Sustainable Development; Animal Genetics and Genomics; Plant Breeding / Biotechnology; Transgenics

Target groups

Upper undergraduate

Type of publication

Encyclop(a)edia

More on www.springer.com/978-1-4614-5796-1

Hardcover

In 3 volumes, sold as a set
2013. XXIX, 1869 p. 375 illus., 252 illus. in color. In 3 volumes, not available separately.

599,00 €

ISBN 978-1-4614-5796-1

usually dispatched within 3 to 5 business days

Hardcover

In 3 volumes, sold as a set
2013. XXIX, 1869 p. 375 illus., 252 illus. in color. Print + eReference. In 3 volumes, not available separately.

749,00 €

ISBN 978-1-4614-5849-4

Online orders shipping within 2-3 days.

F. Dakora, Tshwane University of Technology, Pretoria, South Africa; S.B.M. Chimphango, University of Cape Town, Rondebosch, South Africa; A.J. Valentine, University of the Western Cape, Bellville, South Africa; C. Elmerich, Institut des Sciences du Végétal, Gif-sur-Yvette CX, France; W.E. Newton, Virginia Polytechnic Inst. & State Univ., Blacksburg, USA (Eds.)

Biological Nitrogen Fixation: Towards Poverty Alleviation through Sustainable Agriculture

Proceedings of the 15th International Nitrogen Fixation Congress and the 12th International Conference of the African Association for Biological Nitrogen Fixation

This volume covers recent developments in both fundamental and applied research in biological nitrogen fixation. It emphasizes the application of biological nitrogen fixation for sustainable agriculture, which should lead to poverty alleviation, environmental protection, and good agricultural practices generally. The roles of, and advances in, plant breeding, plant molecular biology, nodule physiology, and symbiotic and associative interactions between plants and microbes in sustaining agricultural productivity and soil fertility are described. The evolution of symbioses and nitrogen fixation are also covered in this volume. To ensure high agricultural productivity, while protecting[...]

Features

This volume covers recent developments in both fundamental and applied research in biological nitrogen fixation. It emphasizes the application of biological nitrogen fixation for sustainable agriculture, which should lead to poverty alleviation, environmental protection, and good agricultural practices generally. The roles of, and advances in, plant breeding, plant molecular biology, nodule physiology, and [...]

Contents

From the contents Preface. Dedication. Keynote Lecture.- Section 1. Towards Sustainable Agriculture. A. Crop Improvement and Sustainable Agriculture for Poverty Alleviation. B. Use of Inoculants. C. Tree Legumes and Forestry. E. Summary Presentations.- Section 2. Nodule Organogenesis and Plant Genomics. A. Host Response to Invasion. B. Nodule Physiology and Genetics. C. Plant Genomics and Transcriptomics. D. Bacterial Partner. E. Summary Presentations.- Section 3. Microbiology of Nitrogen Fixation. A. Genomics, Phylogeny, and Evolution. B. Rhizosphere Associations. C. Enzymology and [...]

Fields of interest

Microbiology; Agriculture; Microbial Genetics and Genomics; Plant Biochemistry; Microbial Ecology

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4020-8251-1

Hardcover

2008. (Current Plant Science and Biotechnology in Agriculture, Vol. 42)

229,00 €

ISBN 978-1-4020-8251-1

usually dispatched within 3 to 5 business days

I. Darnhofer, D. Gibbon, Agricultural and Rural, Church Stretton, United Kingdom; B. Dedieu, INRA, Saint-Genes-Champagnelle, France (Eds.)

Farming Systems Research into the 21st Century: The New Dynamic

Farming Systems Research has three core characteristics: it builds on systems thinking, it depends on the close collaboration between social and biophysical sciences, and it relies on participation to build co-learning processes. Farming Systems Research posits that to contribute towards sustainable rural development, both interdisciplinary collaborations and local actor engagement are needed. Together, they allow for changes in understanding and changes in practices. This book gives an overview of the insights generated in 20 years of Farming Systems Research. It retraces the emergence and development of Farming Systems Research in Europe, summarises the state-of-the-art for key[...]

Features

Farming Systems Research has three core characteristics: it builds on systems thinking, it depends on the close collaboration between social and biophysical sciences, and it relies on participation to build co-learning processes. Farming Systems Research posits that to contribute towards sustainable rural development, both interdisciplinary collaborations and local actor engagement are needed. Together, [...]

Contents

Part I: Farming Systems Research in Europe.- 1. Farming Systems Research: An approach to inquiry.- 2. The origins of the European IFSA: The first meetings and the agenda renewal.- 3. Early Farming Systems Research and extension experience in Africa and possible relevance for FSR in Europe.- 4. Textual analysis and scientometric mapping of the dynamic knowledge in and around the IFSA community.- 5. Methodological themes in Farming Systems Research and implications for learning in higher education.-Part II: State of the art and key issues.- 6. How should we farm? The ethical dimension of[...]

Fields of interest

Agriculture; Sustainable Development; Environmental Management; Social Sciences (general); Science Education

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4502-5

Hardcover

2012. XIII, 490 p. 107 illus., 26 illus. in color.

169,95 €

ISBN 978-94-007-4502-5

usually dispatched within 3 to 5 business days

A.P. Dedousis, Thessaly Institute of Technology &, Volos, Greece; Th. Bartzanas, Thessaly Institute of Technology &, Volos, Greece (Eds.)

Soil Engineering

The agricultural world has changed significantly during the last years. The excessive use of heavy machinery, waste disposal, the use of agrochemicals and new soil cultivation means led to severe problems, which agricultural engineers have to cope with in order to prevent soil from permanent irreversible damage. This Soil Biology volume will update readers on several cutting-edge aspects of sustainable soil engineering including topics such as: soil compaction, soil density increases, soil disturbance and soil fragmentation; soil tillage machineries and optimization of tillage tools; soil traffic and traction, effects of heavy agricultural machines, the use of robotics in agriculture[...]

Features

The agricultural world has changed significantly during the last years. The excessive use of heavy machinery, waste disposal, the use of agrochemicals and new soil cultivation means led to severe problems, which agricultural engineers have to cope with in order to prevent soil from permanent irreversible damage. This Soil Biology volume will update readers on several cutting-edge aspects of [...]

Fields of interest

Agriculture; Environmental Engineering / Biotechnology; Soil Science & Conservation; Waste Management / Waste Technology; Sustainable Development; Applied Ecology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-3-642-03680-4

Hardcover

2010. XI, 230p. 93 illus.. (Soil Biology, Vol. 20)

199,99 €

ISBN 978-3-642-03680-4

usually dispatched within 3 to 5 business days

O. Devik (Ed.)

Harvesting Polluted Waters

Waste Heat and Nutrient-Loaded Effluents in the Aquaculture

Fields of interest

Freshwater & Marine Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4613-4330-1

Softcover

1976. (Environmental Science Research (closed), Vol. 8)

79,95 €

ISBN 978-1-4613-4330-1

usually dispatched within 3 to 5 business days

C. Dwyer, Scottish Agricultural College, Penicuik, Midlothian, United Kingdom (Ed.)

The Welfare of Sheep

The welfare of the sheep has received less attention than the welfare of intensively husbanded animals. However, domestic sheep may be kept under conditions that are very different from the environment in which wild sheep live, with adverse effects on their behaviour and welfare. This book, written by leading researchers from Europe and Australia, takes a multidisciplinary approach to focus on the specific welfare challenges facing the sheep. The book begins with a discussion of current welfare thinking and how this might be relevant to sheep husbandry. The adaptations of wild sheep to diverse environments, and how their behaviour and physiology has developed to deal with these[...]

Features

The welfare of the sheep has received less attention than the welfare of intensively husbanded animals. However, domestic sheep may be kept under conditions that are very different from the environment in which wild sheep live, with adverse effects on their behaviour and welfare. This book, written by leading researchers from Europe and Australia, takes a multidisciplinary approach to focus on the specific [...]

Contents

Series Preface. Preface. List of Contributors. 1. Introduction to animal welfare and the sheep. 2. Environment and the sheep: Breed adaptations and welfare implications. 3. Behaviour and the welfare of the sheep. 4. Sheep senses, cognition and capacity for consciousness. 5. The impact of disease and disease prevention on welfare in sheep. 6. Farming systems for sheep production and their effect on welfare. 7. Nutrition and the welfare of sheep. 8. The management of sheep. 9. The economics of sheep welfare. 10. Sheep welfare: A future perspective. Index.

Fields of interest

Zoology; Animal Genetics and Genomics; Animal Physiology; Behavioural Sciences; Veterinary Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-8552-9

Hardcover

2008. (Animal Welfare, Vol. 6)

169,99 €

ISBN 978-1-4020-8552-9

usually dispatched within 3 to 5 business days

E.N. Eadie, Unit 1, Glenelg North, Australia

Understanding Animal Welfare

An Integrated Approach

This book examines the contents, influence, and potential of a personal selection of modern books published over the last fifty years that have been relevant to improving welfare. The works selected comprise three earlier classics that mainly deal with animal experimentation and intensive farming, as well as five that concentrate on specific subject areas, namely history, science, applied ethics, politics and law, that are important to protecting the welfare of animals against suffering inflicted by humans. The books are arranged in the order of their publication date, and for each one a few related works are also mentioned or discussed. This collection provides a broad understanding[...]

Features

This book examines the contents, influence, and potential of a personal selection of modern books published over the last fifty years that have been relevant to improving welfare. The works selected comprise three earlier classics that mainly deal with animal experimentation and intensive farming, as well as five that concentrate on specific subject areas, namely history, science, applied ethics, politics [...]

Contents

Introduction.- Experimentation on Animals-The principles of Human Experimental Technique by W.M.S. Russel and R.L. Burch, published 1959.- Intensive Farming Industry/Animal Machines - The New Factory Farming Industry by Ruth Harrison, published 1964.- Immortality of Man's Treatment of Animals/Animal Liberation - Towards an End to Man's Inhumanity to Animals by Peter Singer, published 1975.- History of Challenges to Speciesism/Animal Revolution - Changing Attitudes Towards Speciesism by Richard Ryder, published 1989.- Science of Animal Behaviour and Welfare/Animal Welfare - A Cool Eye Towards[...]

Fields of interest

Fish & Wildlife Biology & Management; Animal Ecology; Zoology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-30576-4

Hardcover

2012. XV, 128 p. 1 illus. in color. (Animal Welfare, Vol. 13)

99,95 €

ISBN 978-3-642-30576-4

usually dispatched within 3 to 5 business days

J. Eilenberg, Royal Veterinary & Agricultural Univ., Frederiksberg C, Denmark; H.M.T. Hokkanen, University Of Helsinki, Helsinki, Finland (Eds.)

An Ecological and Societal Approach to Biological Control

Biological control is among the most promising methods for control of pests (including vectors), diseases and weeds. In this book ecological and societal aspects are for the first time treated together. In an ecological approach the aim is to evaluate the significance of certain biological properties like biodiversity and natural habitats. Also, it is important to see biological control from an organic (or ecological) farming point of view. In a societal approach terms like 'consumer's attitude', 'risk perception', 'learning and education' and 'value triangle' are recognised as significant for biological production and human welfare.

Features

Biological control is among the most promising methods for control of pests (including vectors), diseases and weeds. In this book ecological and societal aspects are for the first time treated together. In an ecological approach the aim is to evaluate the significance of certain biological properties like biodiversity and natural habitats. Also, it is important to see biological control from an organic (or [...])

Contents

1. Concepts and visions of biological control. 2. Socioeconomic significance of biological control. 3. Biological control in organic production: first choice or last option? 4. Food consumption, risk perception and alternative production technologies. 5. Education in biological control at the university level at KVL. 6. Implementation of biological control and IPM in Dutch horticulture. 7. Biocontrol in protected crops: is lack of biodiversity a limiting factor? 8. The soil as a reservoir for antagonists to plant diseases. 9. The soil as a reservoir for natural enemies of pest insects[...]

Fields of interest

Entomology; Plant Pathology; Ecology; Plant Sciences

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-4320-8

Hardcover

2006. XII, 322 p. (Progress in Biological Control, Vol. 2)

159,99 €

ISBN 978-1-4020-4320-8

usually dispatched within 3 to 5 business days

M. Ellittà, J. Mureithi, R. Derpsch (Eds.)

Green Manure/Cover Crop Systems of Smallholder Farmers

Experiences from Tropical and Subtropical Regions

In the 1980s and 1990s, green manure/cover crop (GMCC) systems became a popular agricultural technology in research and development efforts for smallholder tropical and subtropical farmers. However, few syntheses of these experiences have been conducted. This volume of case studies contributes to bridging this gap by reviewing field-level experiences with these systems. Twelve case studies are included. Eleven of them describe experiences from Latin America (4 cases), Africa (6 cases) and Asia (1 case) and the twelfth case reports on the development of a GMCC systems database. Two concluding chapters, 'Learning from the Case Studies' and 'Future Perspectives', build upon the cases.[...]

Features

In the 1980s and 1990s, green manure/cover crop (GMCC) systems became a popular agricultural technology in research and development efforts for smallholder tropical and subtropical farmers. However, few syntheses of these experiences have been conducted. This volume of case studies contributes to bridging this gap by reviewing field-level experiences with these systems. Twelve case studies are included. [...]

Contents

Preface.- Acknowledgements; The Editors.- Photo Section.- Introduction; The Editors.- Use of Green Manure/Cover Crops and Conservation Tillage in Santa Catarina, Brazil.- Slash-and-Mulch System: Frijol Tapado in Costa Rica.- Use by Hillside Farmers of Northern Honduras.- Cultivating Maize with Mucuna in the Los Tuxtlas Region of South-eastern Veracruz, Mexico.- Improved Fallows in Eastern Zambia.- Best-Bet Legumes for Smallholder Maize-based Cropping Systems of Malawi.- Promotion of Marejea Cultivation in the Ruvuma Region of Tanzania: Experiences of the Catholic Missionaries at[...]

Fields of interest

Agriculture; Soil Science & Conservation; Forestry

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-2045-2

Hardcover

2004. XXXIII, 361 p.

149,99 €

ISBN 978-1-4020-2045-2

usually dispatched within 3 to 5 business days

L. Erickson, University of Guelph, Guelph, Canada; W.-J. Yu, J. Brandle, Southern Crop Protection & Food, London, Canada; R. Rymerson (Eds.)

Molecular Farming of Plants and Animals for Human and Veterinary Medicine

Until recently, agriculture was seen as a minor customer of the pharmaceutical industry. However, as this book amply demonstrates, agriculture may be poised to become a much more important supplier rather than consumer of pharmaceuticals. This book is the most comprehensive and up-to-date compilation of bio-farming strategies to provide health products that are both safer and lower-cost than those produced conventionally. The style and information presented assumes a university undergraduate level of genetics and biology. Technical information regarding the methods used and the results, as well as perspectives on commercialization and regulation, is provided by scientists prominent in[...]

Features

Until recently, agriculture was seen as a minor customer of the pharmaceutical industry. However, as this book amply demonstrates, agriculture may be poised to become a much more important supplier rather than consumer of pharmaceuticals. This book is the most comprehensive and up-to-date compilation of bio-farming strategies to provide health products that are both safer and lower-cost than those produced [...]

Contents

Preface.- 1. Tobacco, a Platform for the Production of Recombinant Proteins.- 2. Alfalfa: an Efficient Bioreactor for Continuous Recombinant Protein Production.- 3. The Use of Viral Vectors for the Production Recombinant Proteins in Plants.- 4. Control of the N-Glycosylation of Therapeutic Glycoproteins Produced in Transgenic Plants: a New Challenge for Glycobiologists.- 5. Production and Commercialization Biopharmaceuticals from Milk.- 6. A Seed-derived Oral Subunit Vaccine for Human Cytomegalovirus.- 7. Use of Plant Virus-Based Expression Systems for the Production of HIV Vaccines.-[...]

Fields of interest

Plant Sciences; Plant Physiology; Human Genetics; Veterinary Medicine; Internal Medicine

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-0835-1

Hardcover

2002. XIX, 374 p.

189,99 €

ISBN 978-1-4020-0835-1

usually dispatched within 3 to 5 business days

U. Gisi, Syngenta Crop Protection, Basel, Switzerland; I. Chet, Hebrew University Jerusalem, Rehovot, Israel; M.L. Gullino, Università degli Studi di Torino, Grugliasco, Italy (Eds.)

Recent Developments in Management of Plant Diseases

Plant disease management remains an important component of plant pathology and is more complex today than ever before including new innovation in diagnostic kits, the discovery of new modes of action of chemicals with low environmental impact, biological control agents with reliable and persistent activity, as well as the development of new plant varieties with durable disease resistance. This book is a collection of invited lectures given at the 9th International Congress of Plant Pathology (ICPP 2008), held in Torino, August 24-29, 2008 and is part of a series of volumes on Plant Pathology in the 21st Century. It focuses on new developments of disease management and provides an[...]

Features

Plant disease management remains an important component of plant pathology and is more complex today than ever before including new innovation in diagnostic kits, the discovery of new modes of action of chemicals with low environmental impact, biological control agents with reliable and persistent activity, as well as the development of new plant varieties with durable disease resistance. [...]

Fields of interest

Plant Pathology; Plant Sciences; Bioinformatics; Agriculture

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-8803-2

Hardcover

2009. XV, 377p. (Plant Pathology in the 21st Century, Vol. 1)

169,99 €

ISBN 978-1-4020-8803-2

usually dispatched within 3 to 5 business days

P. Glatz, University of Adelaide, Roseworthy, Australia; C. Lunam, Flinders University, Adelaide, Australia; I. Malecki, University of Western Australia, Crawley, Australia (Eds.)

The Welfare of Farmed Ratites

This volume reviews, for the first time, the broad range of issues that affect the welfare of commercially farmed ratites. Although ratites incorporate several families of flightless birds this book focuses on the most commonly farmed ratites, the ostrich, emu and rhea. The readers are taken on a journey through all sectors of the industry, which include breeding, incubation, hatching, brooding, rearing, growth, transport and processing, with an emphasis on husbandry and management protocols that can impact bird welfare and health. Also discussed is the structure and sensory innervation of the skin and digits of the birds, and the potential welfare implications of industry practices[...]

Features

This volume reviews, for the first time, the broad range of issues that affect the welfare of commercially farmed ratites. Although ratites incorporate several families of flightless birds this book focuses on the most commonly farmed ratites, the ostrich, emu and rhea. The readers are taken on a journey through all sectors of the industry, which include breeding, incubation, hatching, brooding, rearing, [...]

Contents

The Ethics of Farming Flightless Birds.- Breeder Welfare – The Past, Present and Future.- Natural Mating and Artificial Insemination.- Incubation and Chick Rearing.- Ostrich Nutrition and Welfare.- Welfare Issues Associated with Ratite Husbandry Practices.- The Structure and Sensory Innervation of the Integument of Ratites.- Ratite Movement.- Ratite Health – Welfare Implications.- Bird Handling, Transportation, Lairage and Slaughter: Implications for Bird Welfare and Meat Quality.- Ratite Conservation: Linking Captive-Release and Welfare.

Fields of interest

Zoology; Fish & Wildlife Biology & Management; Animal Ecology; Agriculture

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-3-642-19296-8

Hardcover

2011. XVIII, 266 p. (Animal Welfare, Vol. 11)

159,99 €

ISBN 978-3-642-19296-8

usually dispatched within 3 to 5 business days

J. Hassink, M. Dijk, van (Eds.)

Farming for Health

Green-Care Farming Across Europe and the United States of America

Farming for Health describes the utilization of agricultural farms, farm animals, plants and landscapes as a base for promoting human mental and physical health and social well-being. This book gives an overview of the development of 'Farming for Health' initiatives across Europe. This development is a logical result of the changing paradigms in the health-care sector and the demand for new social and financial impulses in agriculture and rural areas. Researchers from The Netherlands, Norway, Finland, Denmark, Slovenia, Germany, Belgium, Poland, United Kingdom, Switzerland, Austria and Italy as well as the USA contributed to this book. It not only describes the situation in different[...]

Features

Farming for Health describes the utilization of agricultural farms, farm animals, plants and landscapes as a base for promoting human mental and physical health and social well-being. The book offers an overview of the development of 'Farming for Health' initiatives across Europe. These initiatives are a logical result of the changing paradigms in the health-care sector and the demand for new social and [...]

Contents

From the contents Preface.- Thematic studies.- Country studies.- Conclusions.

Fields of interest

Plant Sciences; Agriculture; Landscape Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-4540-0

Hardcover

2006. X, 357 p. (Wageningen UR Frontis Series, Vol. 13)

199,99 €

ISBN 978-1-4020-4540-0

usually dispatched within 3 to 5 business days

H.J. Heege, University of Kiel, Kiel, Germany (Ed.)

Precision in Crop Farming

Site Specific Concepts and Sensing Methods: Applications and Results

High yields and environmental control in crop farming call for precise adaptations to local growing conditions. Treating large fields in a uniform way by high capacity machinery cannot be regarded as a sustainable method for many situations. Because differences existing within single fields must be considered. The transition from former field work carried out manually or by small implements to present-day high-capacity machinery caused that the farmers lost the immediate and close contact with soils and crops. However, modern sensing and controlling technology can make up for this deficit. High tech methods that include proximal sensing and signals from satellites can provide for[...]

Features

High yields and environmental control in crop farming call for precise adaptations to local growing conditions. Treating large fields in a uniform way by high capacity machinery cannot be regarded as a sustainable method for many situations. Because differences existing within single fields must be considered. The transition from former field work carried out manually or by small implements to present day [...]

Contents

1 Introduction.- 2 Heterogeneity in Fields: Basics of Analyses.- 3 Sensing by Electromagnetic Radiation.- 4 Precision in Guidance of Farm Machinery.- 5 Sensing of Natural Soil Properties.- 6 Sensing of Crop Properties.- 7 Site-Specific Soil Cultivation.- 8 Site-Specific Sowing.- 9 Site-Specific Fertilizing.- 10 Site-Specific Weed Control.- 11 Site-Specific Sensing for Fungicide Spraying.- 12 Site-Specific Recording of Yields.- 13 Fusions, Overlays and Management Zones.- 14 Summary and Perspectives.- Index.

Fields of interest

Agriculture; Plant Sciences; Soil Science & Conservation; Plant Biochemistry; Engineering (general); Control

Target groups

Upper undergraduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-6759-1

Hardcover

2013. XI, 356 p. 181 illus., 87 illus. in color.

139,99 €

ISBN 978-94-007-6759-1

usually dispatched within 3 to 5 business days

A. Karaca, Ankara University, Ankara, Turkey (Ed.)

Biology of Earthworms

Earthworms, which belong to the order Oligochaeta, comprise roughly 3,000 species grouped into five families. Earthworms have been called 'ecosystem engineers'; much like human engineers, they change the structure of their environments. Earthworms are very versatile and are found in nearly all terrestrial ecosystems. They play an important role in forest and agricultural ecosystems. This Soil Biology volume describes the various facets of earthworms, such as their role in soil improvement, soil structure, and the biocontrol of soil-borne plant fungal diseases. Reviews discuss earthworms' innate immune system, molecular markers to address various issues of earthworm ecology, earthworm[...]

Features

Earthworms, which belong to the order Oligochaeta, comprise roughly 3,000 species grouped into five families. Earthworms have been called 'ecosystem engineers'; much like human engineers, they change the structure of their environments. Earthworms are very versatile and are found in nearly all terrestrial ecosystems. They play an important role in forest and agricultural ecosystems. This Soil Biology volume [...]

Fields of interest

Terrestrial Ecology; Agriculture; Invertebrates; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-14635-0

Hardcover

2011. XIV, 316 p. (Soil Biology, Vol. 24)

169,99 €

ISBN 978-3-642-14635-0

usually dispatched within 3 to 5 business days

V.J. Karplus, National Institute of Biological, Beijing, China (P.R.); X.W. Deng, Yale University, New Haven, USA

Agricultural Biotechnology in China

Origins and Prospects

Scientists in China's laboratories have developed hundreds of transgenic crops, but only one is insect-resistant cotton and planted widely on farms. This apparent paradox has inspired the writing of this book *Agricultural Biotechnology in China: Origins and Prospects*. Against the backdrop of ongoing global controversy over the safety and benefits of transgenic crops, this book focuses on two key questions: 1) What historical as well as recent economic, political and social developments account for China's sizeable investment in research on transgenic crops and the apparent mismatch between laboratory and commercial activity?; and 2) What are the chances that transgenic crops will be[...]

Features

Over the last thirty years, China has developed one of the world's largest public research programs in agricultural biotechnology. Building on a long tradition of agricultural advances, Chinese scientists have applied biotechnology techniques to develop hundreds of novel crop varieties suited to local farming conditions and challenges. *Agricultural Biotechnology in China: Origins and [...]*

Contents

Preface.- Introduction.- From Seeds to EmpiresChina's Long Agricultural History.- Modern Science on the Farm The Green Revolution.- Transformation in China's Agriculture in the Twentieth Century.- Agricultural Biotechnology: New Tools for Ancient Practices.- Agricultural Biotechnology Takes Root in China.- From Lab to Field.- China's First Transgenic Crops.- Biosafety and China's Regulatory Policy.- Looking to the Future: Trends in Plant Sciences and Agricultural Biotechnology Research.- Conclusion.- Works Cited.- Index.

Fields of interest

Plant Sciences; Agriculture; Biotechnology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-0-387-71138-6

Hardcover

2008.

99,99 €

ISBN 978-0-387-71138-6

Currently out of stock, reprint ready for shipping 6 weeks.

M. Kawakami, Kanazawa University, Kanazawa, Japan; Z.-j. Shen, Kanazawa University, Kanazawa, Japan; J.-t. Pai, Chengchi University, Taipei, Taiwan; X.-l. Gao, Chinese Academy of Sciences, Beijing, China (P.R.); M. Zhang, University of Texas at Austin, Austin, USA (Eds.)

Spatial Planning and Sustainable Development

Approaches for Achieving Sustainable Urban Form in Asian Cities

This book attempts to provide insights into the achievement of a sustainable urban form, through spatial planning and implementation; here, we focus on planning experiences at the levels of local cities and some metropolitan areas in Asian countries. This book investigates the impact of planning policy on spatial planning implementation, from multidisciplinary viewpoints encompassing land-use patterns, housing development, transportation, green design, and agricultural and ecological systems in the urbanization process. We seek to learn from researchers in an integrated multidisciplinary platform that reflects a variety of perspectives, such as economic development, social equality,[...]

Features

This book attempts to provide insights into the achievement of a sustainable urban form, through spatial planning and implementation; here, we focus on planning experiences at the levels of local cities and some metropolitan areas in Asian countries. This book investigates the impact of planning policy on spatial planning implementation, from multidisciplinary viewpoints encompassing land-use patterns, housing [...]

Contents

Part 1 Urbanization and Sustainable Society - Section Urbanization and planning approach.- Part 2 Urbanization and Sustainable Society - Section Housing and Transportation.- Part 3 Landscape and Ecological System, Sustainable Development - Section Green design and landscape.- Part 4 Landscape and Ecological System, Sustainable Development - Section Agriculture and ecological system.- Part 5 Landscape and Ecological System, Sustainable Development - Section Vulnerability of urban system.

Fields of interest

Landscape Ecology; Sustainable Development; Human Geography; Environmental Management

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5921-3

Hardcover

2013. XXIV, 459 p. 185 illus. (Strategies for Sustainability)

139,95 €

ISBN 978-94-007-5921-3

usually dispatched within 3 to 5 business days

E.C. Lefroy, R.J. Hobbs, M.H. O'Connor, J.S. Pate (Eds.)

Agriculture as a Mimic of Natural Ecosystems

This book critically examines the idea that the sustainability of agriculture could be improved by mimicking the structure and processes occurring in natural ecosystems. Researchers from around the world present comparative studies of multi-species farming systems, natural ecosystems and conventional agriculture. Case studies from Europe, Africa, Asia, Australia, and North and South America examine the implications of increasing the complexity of farming systems on water and nutrient cycling, productivity and resilience. Theoretical issues discussed include the role of biodiversity in agriculture, the trade-off between perenniality and productivity, the choice to integrate[...]

Features

This book critically examines the idea that the sustainability of agriculture could be improved by mimicking the structure and processes occurring in natural ecosystems. Researchers from around the world present comparative studies of multi-species farming systems, natural ecosystems and conventional agriculture. Case studies from Europe, Africa, Asia, Australia, and North and South America examine the [...]

Fields of interest

Plant Ecology; Plant Sciences; Ecology; Forestry

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-5965-4

Hardcover

1999. (Current Plant Science and Biotechnology in Agriculture, Vol. 37)

304,00 €

ISBN 978-0-7923-5965-4

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA-CMSE-PME, Dijon CX, France (Ed.)

Organic Farming, Pest Control and Remediation of Soil Pollutants

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur[...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

Preface: Sustainable agriculture as a central science to solve global society issues - Eric Lichtfouse
Foreword: Mother of necessity: the soil - Rattan Lal
1. Introduction article: Technology without wisdom - Rattan Lal
2. Transgenic cotton for sustainable pest management - Jorge B. Torres
3. Conservation Agriculture, a different approach for crop production through sustainable soil and water management - Fabio Stagnari
4. Recurrent mass selection for routine improvement of common wheat - GF Marais
5. Rotation design: a critical factor for sustainable crop production in a semiarid climate - [...]

Fields of interest

Agriculture; Sustainable Development; Plant Sciences; Climate Change; Ecosystems; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-9653-2

Hardcover

2010. (Sustainable Agriculture Reviews, 1)

199,99 €

ISBN 978-1-4020-9653-2

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA-CMSE-PME, Dijon CX, France; M. Navarrete, INRA-SAD, Avignon CX 09, France; P. Debaeke, INRA, Toulouse CX, France; S. Véronique, INRA-INA PG, Thiverval-Grignon, France; C. Alberola, INRA Avignon, Avignon CX 9, France (Eds.)

Sustainable Agriculture

Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Starving people in poor nations, obesity in rich nations, increasing food prices, on-going climate changes, increasing fuel and transportation costs, flaws of the global market, worldwide pesticide pollution, pest adaptation and resistance, loss of soil fertility and organic carbon, soil erosion, decreasing biodiversity, desertification, and so on. Despite unprecedented advances in sciences allowing to visit planets and disclose subatomic particles, serious terrestrial issues about food show clearly that conventional[...]

Features

Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Starving people in poor nations, obesity in rich nations, increasing food prices, on-going climate changes, increasing fuel and transportation costs, flaws of the global market, worldwide pesticide pollution, pest adaptation and resistance, loss of [...]

Contents

From the contents Preface. Introduction. Section 1. Climate Change. Section 2. Genetically Modified Organisms. Section 3. Biodiversity. Section 4. Alternative Control. Section 5. Alternative Fertilisation. Section 6. New Farming Systems. Section 7. Pollutants In Agrosystems.

Fields of interest

Agriculture; Sustainable Development; Plant Sciences; Climate Change; Ecosystems; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-90-481-2665-1

Hardcover

2009.

239,00 €

Special offer valid until March 31, 2014

120,99 €

ISBN 978-90-481-2665-1

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA-CMSE-PME, Dijon CX, France (Ed.)

Climate Change, Intercropping, Pest Control and Beneficial Microorganisms

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur[...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

Preface: Climate change, society issues and sustainable agriculture. Foreword: Tragedy of the global commons: soil, water and air. 1. The rediscovery of intercropping in China: a traditional cropping system for future Chinese agriculture. 2. Effect of genetically modified bacteria on ecosystems and their potential benefits for bioremediation and biocontrol of plant diseases. 3. Climate change and plant water balance. The role of aquaporins. 4. Responses of cereal plants to environmental and climate changes. 5. Induction of plant tolerance to semi-arid environments by beneficial soil[...]

Fields of interest

Agriculture; Sustainable Development; Plant Sciences; Climate Change; Ecosystems; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-90-481-2715-3

Hardcover

2009. (Sustainable Agriculture Reviews, 2)

229,00 €

ISBN 978-90-481-2715-3

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA-CMSE-PME, Dijon CX, France (Ed.)

Sociology, Organic Farming, Climate Change and Soil Science

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, environmentally-friendly solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, and social sciences. Indeed, sustainable agriculture decipher mechanisms of processes that occur[...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

1. Society issues, painkiller solutions, dependence and sustainable agriculture; Eric Lichtfouse2. Sociology of sustainable agriculture; Ezatollah Karami3. Sustainable versus organic agriculture; Vito Sardo4. Organic agriculture and food production: ecological, environmental, food safety and nutritional quality issues; Reza Ghorbani5. Sustainability of energy crop cultivation in Central Europe; Volkhard Scholz6. Phosphorus, plant biodiversity and climate change; Nicole Wrage7. Co-evolution and migration of bean and rhizobia in Europe; Paula A. Rodiño8. Non-isotopic and ¹³C isotopic[...]

Fields of interest

Agriculture; Sustainable Development; Plant Sciences; Climate Change; Ecosystems; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-90-481-3332-1

Hardcover

2010. VI, 478 p. (Sustainable Agriculture Reviews, 3)

199,99 €

ISBN 978-90-481-3332-1

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA, UMR1347 Agroécologie, Dijon, France (Ed.)

Alternative Farming Systems, Biotechnology, Drought Stress and Ecological Fertilisation

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for our children. This discipline addresses current issues such as climate change, increasing food and fuel prices, starvation, obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. Novel solutions are proposed based on integrated knowledge from agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, philosophy and social sciences. As actual society issues are now intertwined, sustainable agriculture will bring solutions to build a safer world. This book series analyzes current agricultural issues, and[...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

1. Thinking by Connections and the Dynamics of Nature for Food Production; Dr. Clara Ceppa. -2. Transgenic Bt Corn Hybrids and Pest Management in the USA; Dr. Siddharth Tiwari. -3. Marker-Assisted Breeding in Higher Plants; Dr. Mehboob Rahman. -4. Phytoremediation Techniques for Pesticide Contaminations; Dr. Sophie Pascal-Lorber. -5. Sustainable Land Use and Agricultural Soil; Dr. Victor Hugo Duran. -6. Drought Stress Effect on Crop Pollination, Seed Set, Yield and Quality; Dr. Ahmad Alqudah. -7. Ecological Fertilization; Dr. György Füleky. -8. Tropical Homegardens in Bangladesh, [...]

Fields of interest

Agriculture; Sustainable Development; Entomology; Climate Change; Ecosystems; Soil Science & Conservation

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-0185-4

Hardcover

2011. X, 390p. (Sustainable Agriculture Reviews, Vol. 6)

169,99 €

ISBN 978-94-007-0185-4

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA, UMR1347 Agroécologie, Dijon, France; M. Hamelin, French National Institute for Agriculture, Narbonne, France; M. Navarrete, INRA-SAD, Avignon CX 09, France; P. Debaeke, INRA, Toulouse CX, France (Eds.)

Sustainable Agriculture Volume 2

This book gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Features

Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Starving people in poor nations, obesity in rich nations, increasing food prices, on-going climate changes, increasing fuel and transportation costs, flaws of the global market, worldwide pesticide pollution, pest adaptation and resistance, loss of [...]

Contents

Section 1 - Novel Concepts.- Section 2 - Food Security.- Section 3 - Sociology and Economics.- Section 4 - Climate Change.- Section 5 - Alternative Pest Control.- Section 6 - Soil Health.- Section 7 - Alternative Fertilisation.

Fields of interest

Agriculture; Soil Science & Conservation; Sustainable Development; Agricultural Economics; Sociology, general

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-0393-3

Hardcover

2011. XX, 991p. 50 illus..

239,00 €

ISBN 978-94-007-0393-3

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA, UMR1347 Agroécologie, Dijon, France (Ed.)

Genetics, Biofuels and Local Farming Systems

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for our children. This discipline addresses current issues such as climate change, increasing food and fuel prices, starvation, obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. Novel solutions are proposed based on integrated knowledge from agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, philosophy and social sciences. As actual society issues are now intertwined, sustainable agriculture will bring solutions to build a safer world. This book series analyzes current agricultural issues and [...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

1. Addicted to Growth; Mr. Rudy M. Baum.- 2. Grass biomethane for agriculture and energy; Dr. Nicholas E. Korres.- 3. Genetic mechanisms enhancing plant biodiversity; Dr. Ioannis S. Tokatlidis.- 4. Integrated agri-aquaculture systems; Dr. Ariel D. Zajdband.- 5. Small RNA-mediated defensive and adaptive responses in plants; Dr. Qazi Mohd. Rizwanul Haq.- 6. Beneficial Soil Microorganisms, an Ecological Alternative for Soil Fertility Management; Dr. Claudio Altomare.- 7. Human Labour and Green Manure, Two Overlooked Factors for Energy Analysis in Agriculture; Dr. Vito Sardo.- 8.[...]

Fields of interest

Agriculture

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-1520-2

Hardcover

2011. X, 426 p. (Sustainable Agriculture Reviews, Vol. 7)

149,95 €

ISBN 978-94-007-1520-2

usually dispatched within 3 to 5 business days

E. Lichtfouse, INRA, UMR1347 Agroécologie, Dijon, France (Ed.)

Farming for Food and Water Security

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for our children. This discipline addresses current issues such as climate change, increasing food and fuel prices, starvation, obesity, water pollution, soil erosion, fertility loss, pest control and biodiversity depletion. Novel solutions are proposed based on integrated knowledge from agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, philosophy and social sciences. As actual society issues are now intertwined, sustainable agriculture will bring solutions to build a safer world. This book series analyzes current agricultural issues and [...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

Public goods and farming.- Pesticides and sustainable agriculture.- Nitrogen use efficiency by annual and perennial crops.- Microalgae for bioremediation of distillery effluent.- No-till direct seeding for energy-saving rice production in China.- Agricultural water poverty index for a sustainable world.- Participatory rural appraisal to solve irrigation issues.- Bioavailability of soil P for plant nutrition.- Animal manure for smallholder agriculture in South Africa.- Vermicompost and soil quality.

Fields of interest

Agriculture; Water Policy / Water Governance / Water Management

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4499-8

Hardcover

2012. V, 274 p. 49 illus. (Sustainable Agriculture Reviews, Vol. 10)

139,95 €

ISBN 978-94-007-4499-8

usually dispatched within 3 to 5 business days

E. Lichtfouse, UMR1347 Agroécologie, Dijon, France (Ed.)

Sustainable Agriculture Reviews

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel solutions are proposed based on integrated knowledge from sciences as diverse as agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, philosophy and social sciences. Because actual society issues are now intertwined, global, and fast-developing, [...]

Features

Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children. Sustainable agriculture is a discipline that addresses current issues such as climate change, increasing food and fuel prices, poor-nation starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel, [...]

Contents

Surprising facts about soils, students and teachers! A survey of educational research and resources.- Sustainable agriculture and climate changes in Egypt.- Adapting maize crop to diverse agro-ecosystems.- Intercropping.- Soil organic matter dynamics and structure.- Enhancing fertilizer efficiency in high input cropping systems in Florida.- Plant and animal breeding as starting points for sustainable agriculture.- Medicinal plant active compounds produced by UV-B exposure.- Benefits of compost for land determined by life cycle assessment.- Biocontrol of plant pathogens using plant [...]

Fields of interest

Life Sciences (general); Agriculture; Sustainable Development

Target groups

Graduate

Type of publication

Reviews

More on www.springer.com/978-94-007-5960-2

Hardcover

2013. VI, 371 p. 70 illus. (Sustainable Agriculture Reviews, Vol. 12)

139,95 €

ISBN 978-94-007-5960-2

usually dispatched within 3 to 5 business days

K. Martin, University of Hohenheim, Stuttgart, Germany; J. Sauerborn, University of Hohenheim, Stuttgart, Germany

Agroecology

This book represents an interdisciplinary approach to the relevant aspects of agricultural production related to the interactions between natural processes, human activities and the environment. It provides condensed and comprehensive knowledge on the functions of various agroecosystems at the field, landscape and global scale. Understanding and integrating complex ecological processes into field production, land management and food systems is essential in order to deal with the challenges of modern crop and livestock production: the need for food security for the growing human population, and the necessity to combat the detrimental effects of food production on the environment. The [...]

Features

This book represents an interdisciplinary approach to the relevant aspects of agricultural production related to the interactions between natural processes, human activities and the environment. It provides condensed and comprehensive knowledge on the functions of various agroecosystems at the field, landscape and global scale. Understanding and integrating complex ecological processes into field [...]

Contents

1. Introduction.- 2. Origin and development of agriculture.- 3. Patterns and processes in ecosystems.- 4. Crops and their environment.- 5. Management of unwanted organisms.- 6. Production and management of livestock resources.- 7. Climate zones and land use.- 8. Agroecological aspects of global change.

Fields of interest

Agriculture; Ecology; Ecosystems; Landscape Ecology; Geography (general); Biogeosciences

Target groups

Upper undergraduate

Type of publication

Undergraduate textbook

More on www.springer.com/978-94-007-5916-9

Hardcover

2013. X, 330 p. 201 illus.

69,95 €

ISBN 978-94-007-5916-9

usually dispatched within 3 to 5 business days

L. May, Centre for Ecology and Hydrology, Penicuik, United Kingdom; B.M. Spears, Centre for Ecology and Hydrology, Penicuik, United Kingdom (Eds.)

Loch Leven: 40 years of scientific research

Understanding the links between pollution, climate change and ecological response

Shallow lakes are important for their amenity value and the ecosystem services that they support. However, many are located in areas of high population density and intensive farming activity. As such, they are subject to many stressors, including eutrophication and climate change. This book examines 40 years of data from Loch Leven, a shallow lake in the lowlands of Scotland, UK, to gain a better understanding of the links between pollution, climate change and ecological response at the landscape scale. A wide range of topics is presented, including long term changes in nutrient inputs, internal phosphorus loading, water quality, algal concentrations, and the biodiversity of [...]

Features

Shallow lakes are important for their amenity value and the ecosystem services that they support. However, many are located in areas of high population density and intensive farming activity. As such, they are subject to many stressors, including eutrophication and climate change. This book examines 40 years of data from Loch Leven, a shallow lake in the lowlands of Scotland, UK, to gain a better understanding [...]

Contents

A history of scientific research at Loch Leven, Kinross, Scotland.- Historical changes (1905-2005) in external phosphorus loads to Loch Leven, Scotland, UK.- Long-term variation and regulation of internal phosphorus loading in Loch Leven.- Water quality of Loch Leven.- Changes in aquatic macrophyte communities in Loch Leven.- Long-term trends in Loch Leven invertebrate communities.- Changes in the fish community of Loch Leven.- Long-term variations in waterfowl populations in Loch Leven.- Modelling the response of phytoplankton in a shallow lake (Loch Leven, UK) to changes in lake [...]

Fields of interest

Freshwater & Marine Ecology; Marine & Freshwater Sciences; Climate Change Impacts; Ecosystems; Biodiversity

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4332-8

Hardcover

Reprinted from Hydrobiologia, Volume 681, 2012. VIII, 132p. (Developments in Hydrobiology, Vol. 218)

99,95 €

ISBN 978-94-007-4332-8

usually dispatched within 3 to 5 business days

H. Mehlhorn, Heinrich Heine Universität Düsseldorf, Düsseldorf, Germany (Ed.)

Nature Helps...

How Plants and Other Organisms Contribute to Solve Health Problems

Nature helps... of course at first itself by developing measures that give bacteria, fungi, plants and animals a chance to be successful in their struggle for life. As a latecomer on Earth, Homo sapiens was gifted with some droplets of the divine spirit of recognition and thus became able to observe, to analyse and recombine skills of other living beings and to use them for his overwhelming career over the last 10,000 years. Of course fungi, plants, animals and even bacteria were primarily used by mankind as food or as lifestyle products such as beer, but soon it became clear that there was much more potential hidden in these organisms and that they could be used for other purposes.[...]

Features

Nature helps... of course at first itself by developing measures that give bacteria, fungi, plants and animals a chance to be successful in their struggle for life. As a latecomer on Earth, Homo sapiens was gifted with some droplets of the divine spirit of recognition and thus became able to observe, to analyse and recombine skills of other living beings and to use them for his overwhelming career over the [...]

Contents

Activity of Plants Used for the Treatment of Diarrhoea by Indigenous Traditional Medicine.- Efficiency of Different Types of Plant Extracts Against Mosquitoes.- The Neem Tree Story - Extracts that Really Work.- The Efficacy of Extracts from Plants - Especially from Coconut and Onion - Against Tape- and Roundworms.- Curcumin: A Natural Herb Extract with Antiparasitic Properties.- Marine Organisms and Their Prospective Use in Therapy of Human and Animal Health.- Benefits and Failure of Imported Animals in the Fight Against Pests.- [...]

Fields of interest

Zoology; Parasitology; Eukaryotic Microbiology; Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-19381-1

Hardcover

2011. XIII, 375 p. (Parasitology Research Monographs, Vol. 1)

169,99 €

ISBN 978-3-642-19381-1

usually dispatched within 3 to 5 business days

H. Mehlhorn, Heinrich Heine Universität Düsseldorf, Mehlhorn, Germany (Ed.)

Progress in Parasitology

Parasites threaten the health of animals and humans alike. Especially in times of increasing globalization and global warming, parasites can enlarge their "kingdom" by spreading. At the same time many of the existing medical products have become ineffective. As these products have been used for many decades, parasites have developed resistances, so that they have progressed in their fight for survival. Therefore it is obvious that humans must develop new methods to face these dangers. Thus parasitological knowledge increases daily and must be formulated to be accessible for as many parasitologists (veterinarians, physicians, biologists) as possible. Therefore it is necessary that[...]

Features

Parasites threaten the health of animals and humans alike. Especially in times of increasing globalization and global warming, parasites can enlarge their "kingdom" by spreading. At the same time many of the existing medical products have become ineffective. As these products have been used for many decades, parasites have developed resistances, so that they have progressed in their fight for survival. [...]

Contents

50 years Parasitological Societies in Germany I. Developments in West Germany.- 50 years Parasitological Societies in Germany II. Developments in East Germany.- PROTOZOA.- The world record of parasites in their fight for survival.- Cryptosporidium parvum: The veterinary perspective.- Neonatal porcine coccidiosis.- Posttranslational modifications in apicomplexan parasites.- Development of the RTS, S/A vaccine from concepts to phase III.- Small ruminant theileriosis Interactions of Trypanosoma cruzi and triatomines.- HELMINTHES.- What's about sex in schistosomes - signaling mechanism in the[...]

Fields of interest

Zoology; Parasitology; Eukaryotic Microbiology; Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-21395-3

Hardcover

2011. XIV, 338 p. (Parasitology Research Monographs, Vol. 2)

149,95 €

ISBN 978-3-642-21395-3

usually dispatched within 3 to 5 business days

A. Midlen, T. Redding

Environmental Management for Aquaculture

In recent years the subject of pollution of natural waters by aquaculture has received considerable attention. With increasingly stringent regulation of wastewater quality from fish farms around the world, those involved in the industry need to be aware of the causes of pollution from fish and shellfish farms and of methods by which this pollution may be prevented. This book aims to bring the principles of wastewater treatment and other pollution control techniques for fish and shellfish farming to a wide audience of farmers, students, scientists and engineers; in fact anyone who works in aquaculture or pollution control. For this reason, the authors who have between them[...]

Features

In recent years the subject of pollution of natural waters by aquaculture has received considerable attention. With increasingly stringent regulation of wastewater quality from fish farms around the world, those involved in the industry need to be aware of the causes of pollution from fish and shellfish farms and of methods by which this pollution may be prevented. This book aims to bring the [...]

Fields of interest

Freshwater & Marine Ecology; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Waste Management / Waste Technology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-412-59500-4

Hardcover

1998. (Aquaculture Series, Vol. 2)

209,00 €

ISBN 978-0-412-59500-4

usually dispatched within 3 to 5 business days

K.G. Mukerji, University of Delhi, New Delhi, India; B.P. Chamola, Garhwal University, Chamola, India; J. Singh, Environmental Building Solutions Ltd., Milton Keynes, United Kingdom (Eds.)

Mycorrhizal Biology

The fundamental problem the world faces today, is the rapidly increasing pressure of population on the limited resources of the land. To meet the ever increasing demands of expanding populations, agricultural production has been raised through the abundant use of inorganic fertilizers, the adoption of multicropping systems and liberal application of chemical pesticides (fungicides, bactericides, etc.). Though the use of chemicals has increased the yield dramatically, it has also resulted in the rapid deterioration of land and water resources apart from wastage of scarce resources. This has adversely affected the biological balance and lead to the presence of toxic residues[...]

Features

The fundamental problem the world faces today, is the rapidly increasing pressure of population on the limited resources of the land. To meet the ever increasing demands of expanding populations, agricultural production has been raised through the abundant use of inorganic fertilizers, the adoption of multicropping systems and liberal application of chemical pesticides (fungicides, [...]

Fields of interest

Plant Sciences; Plant Ecology; Soil Science & Conservation; Agriculture; Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-306-46294-8

Hardcover

2000. XII, 336 p.

199,99 €

ISBN 978-0-306-46294-8

usually dispatched within 3 to 5 business days

H.J.W. Mutsaers

Peasants, Farmers and Scientists

A Chronicle of Tropical Agricultural Science in the Twentieth Century

This book is a critical account of tropical agricultural science and agricultural development in the twentieth century, in particular in Africa. It describes successes as well as fads and failures, from the perspective of a practitioner of more than 40 years. The emphasis is on the second half of the century, but the story frequently reaches deep into the first half of the century as well. The book's premise is that the story of tropical agricultural science and agricultural development can be told in a single volume at a more than trivial level, understandable for people of normal intelligence. It tries to uncover what real value there has been in the major areas of study (Farming[...])

Features

This book is a critical account of tropical agricultural science and agricultural development in the twentieth century, in particular in Africa. It describes successes as well as fads and failures, from the perspective of a practitioner of more than 40 years. The emphasis is on the second half of the century, but the story frequently reaches deep into the first half of the century as [...]

Contents

What is tropical Agronomy? A Tropical Agronomist's Education. Old and New: The 1960's and 1970's. Farmers are smarter than you think. Forests, Fallows and Fields. Farmer Skills, an elusive property. Mainly technology. Follies and Sanity of Farming Systems Research. The Modelling Sorcerers and their apprentices. Donors, experts and consultants. Can African farming be improved? Appendices: C.T. de Wit's analysis of plant competition; Shifting Cultivation and recurrent cropping; Factor analysis; Nutrient dynamics of alley cropping; More farmer technologies; Papers presented at the 2005[...]

Fields of interest

Agriculture; Plant Sciences; Monitoring / Environmental Analysis; Soil Science & Conservation; Development Economics; History of Science

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4020-6165-3

Hardcover

2007.

114,99 €

ISBN 978-1-4020-6165-3

usually dispatched within 3 to 5 business days

P.K.R. Nair, University of Florida, Nair, USA

An Introduction to Agroforestry

This college-level textbook summarizes the state of current knowledge in the rapidly expanding field of agroforestry. The book, organized into 25 chapters in six sections, reviews the developments in agroforestry during the past 15 years and describes the accomplishments in the application of biophysical (plant and soil related) and socioeconomic sciences to agroforestry. Although the major focus of the book is on the tropics, where the practice and potential of agroforestry are particularly promising, the developments in temperate zone agroforestry are also discussed. This text is recommended for students, teachers, and researchers in agroforestry, farming systems, and[...]

Features

This college-level textbook summarizes the state of current knowledge in the rapidly expanding field of agroforestry. The book, organized into 25 chapters in six sections, reviews the developments in agroforestry during the past 15 years and describes the accomplishments in the application of biophysical (plant and soil related) and socioeconomic sciences to agroforestry. Although the major focus of the [...]

Fields of interest

Forestry; Tree Biology; Plant Sciences

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-2134-7

Hardcover

1993. XIV, 499 p.

339,00 €

ISBN 978-0-7923-2134-7

usually dispatched within 3 to 5 business days

A. van Niekerk (Ed.)

Ethics in Agriculture - An African Perspective

Agriculture is the lifeblood of the majority of people in Africa. It is not just a provider of food, it is a way of life for rural people. Whilst subsistence farming is the most practiced form of agriculture, there are many parts of Africa where agriculture is highly developed and progressive. In many instances it is the very diversity of agricultural practices that raises complex problems and issues. These issues often manifest themselves in ways that create ethical dilemmas for farmers, policy-makers, academics, politicians and the general lay-person. In particular, the role of biotechnology in African agriculture has become a contentious issue. Some people hold the view that [...]

Features

Agriculture is the lifeblood of the majority of people in Africa. It is not just a provider of food, it is a way of life for rural people. Whilst subsistence farming is the most practiced form of agriculture, there are many parts of Africa where agriculture is highly developed and progressive. In many instances it is the very diversity of agricultural practices that raises complex problems and issues. These [...]

Fields of interest

Agriculture; Life Sciences (general)

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-2988-2

Hardcover

2005. VIII, 167 p.

119,99 €

ISBN 978-1-4020-2988-2

usually dispatched within 3 to 5 business days

E.-C. Oerke, University of Bonn, Bonn, Germany; R. Gerhards, University of Hohenheim, Stuttgart, Germany; G. Menz, University of Bonn, Bonn, Germany; R.A. Sikora, University of Bonn, Bonn, Germany (Eds.)

Precision Crop Protection - the Challenge and Use of Heterogeneity

Precision farming is an agricultural management system using global navigation satellite systems, geographic information systems, remote sensing, and data management systems for optimizing the use of nutrients, water, seed, pesticides and energy in heterogeneous field situations. This book provides extensive information on the state-of-the-art of research on precision crop protection and recent developments in site-specific application technologies for the management of weeds, arthropod pests, pathogens and nematodes. It gives the reader an up-to-date and in-depth review of both basic and applied research developments. The chapters discuss I) biology and epidemiology of pests, II) new [...]

Features

Precision farming is an agricultural management system using global navigation satellite systems, geographic information systems, remote sensing, and data management systems for optimizing the use of nutrients, water, seed, pesticides and energy in heterogeneous field situations. This book, generated by scientists from a broad range of scientific disciplines, provides extensive information on the [...]

Contents

Preface.- Part I - Spatial and temporal heterogeneity of crops, pests, diseases and weeds- causes and implications.- 1. Soil heterogeneity and crop growth; V Adamchuk.- 2. Spatial and temporal dynamics of weed populations; R Gerhards.- 3. Spatial and temporal dynamics of pathogens; FW Nutter.- 4. Spatial and temporal dynamics of arthropods in arable fields; M van Helden.- Part II - Sensing and sensor technologies in crop protection.- 5. The application of laboratory spectroscopy and optical remote sensing for estimating soil properties; J Hill.- 6. Sensing of photosynthetic [...]

Fields of interest

Agriculture; Remote Sensing / Photogrammetry; Geotechnical Engineering & Applied Earth Sciences; Entomology

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-90-481-9276-2

Hardcover

2010. XXIV, 441p.

169,99 €

ISBN 978-90-481-9276-2

usually dispatched within 3 to 5 business days

F.W.T. Penning de Vries, CABO-DLO, Wageningen, Netherlands; P. Teng, NANYANG TECHNOLOGICAL UNIVERSITY, Teng, Singapore; K. Metselaar (Eds.)

Systems approaches for agricultural development

Proceedings of the International Symposium on Systems Approaches for Agricultural Development, 2-6 December 1991, Bangkok, Thailand

Agriculture is changing rapidly all over the world. Intensification, diversification, optimizing scarce resources, integrated pest management, sustainability and climate change are key issues for agricultural institutes. The best solutions will be found by integrating disciplines. Organized thinking about future farming requires forecasting of the implications of alternative ways to farm and to develop agriculture. Systems thinking and systems simulation are indispensable tools for such integration and extrapolation. About 150 scientists and senior research leaders from all over the world participated in the symposium 'Systems Approaches for Agricultural Development' to [...]

Features

Agriculture is changing rapidly all over the world. Intensification, diversification, optimizing scarce resources, integrated pest management, sustainability and climate change are key issues for agricultural institutes. The best solutions will be found by integrating disciplines. Organized thinking about future farming requires forecasting of the implications of alternative ways to farm and to develop [...]

Fields of interest

Plant Sciences; Agriculture; Systems Theory, Control; Ecology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-1880-4

Hardcover

1993. XII, 543 p. (System Approaches for Sustainable Agricultural Development, Vol. 2)

79,95 €

ISBN 978-0-7923-1880-4

Currently out of stock, reprint ready for shipping 6 weeks.

J. Pretzsch, D. Darr, McKinsey & Company, Inc., Berlin, Germany; H. Uibrig, E. Auch, TU Dresden, Tharandt, Germany (Eds.)

Forests and Rural Development

This book provides an overview of the complex challenges and opportunities related to forest-based rural development in the tropics and subtropics. Applying a socio-ecological perspective, the book traces the changing paradigms of forestry in rural development throughout history, summarizes the major aspects of the rural development challenge in forest areas and documents innovative approaches in fields such as land utilization, technology and organizational development, rural advisory services, financing mechanisms, participative planning and forest governance. It brings together scholars and practitioners dealing with the topics from various theoretical and practical angles. Calling[...]

Features

This book provides an overview of the complex challenges and opportunities related to forest-based rural development in the tropics and subtropics. Applying a socio-ecological perspective, the book traces the changing paradigms of forestry in rural development throughout history, summarizes the major aspects of the rural development challenge in forest areas, and documents innovative approaches in fields [...]

Contents

Introduction.- Paradigms.- The Challenges Facing Forest-Based Rural Development in the Tropics and Subtropics.- Land Management Systems at the Interface Between Forestry and Agriculture.- Organizational Changes in Forest Management.- Creating Rural Employment and Generating Income in Forest-Based Value Chains.- At the Interface of Culture, Development and Forests: Insights from Bolivia and Kenya.- Extension Services for Rural Development.- Payment Schemes for Environmental Services - Challenges and Pitfalls with Respect to Effectiveness, Efficiency and Equity.- Financing Forests for[...]

Fields of interest

Forestry Management; Agriculture; Forestry

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-41403-9

Hardcover

2014. XII, 428 p. 55 illus., 18 illus. in color. (Tropical Forestry, Vol. 9)

149,99 €

ISBN 978-3-642-41403-9

Due: January 31, 2014

E.C. Pua, New Era College, Kajang, Malaysia; C.J. Douglas, University of British Columbia, Vancouver, Canada (Eds.)

Brassica

Recent advances in plant cell and molecular biology have opened new avenues for the improvement of crop plants in the genus "Brassica" - oilseeds and vegetables of worldwide economic importance. This volume reviews advances in various areas of "Brassica" biotechnology. It covers the use of rapid-cycle brassicas, tissue culture and gene transfer, molecular genetics, biotic and abiotic stress resistance, and molecular farming. Contributors are world-leading international "Brassica" researchers. The volume is an invaluable reference for plant breeders, researchers and graduate students in the fields of plant biotechnology, agronomy, horticulture, genetics, and cell and molecular biology.

Features

Recent advances in plant cell and molecular biology have opened new avenues for the improvement of crop plants in the genus "Brassica" - oilseeds and vegetables of worldwide economic importance. This volume reviews advances in various areas of "Brassica" biotechnology. It covers the use of rapid-cycle brassicas, tissue culture and gene transfer, molecular genetics, biotic and abiotic stress resistance, and [...]

Contents

Species origin and economic importance.- Rapid-cycling Brassica in research and education.- Genome mapping and analysis.- Male sterility.- Biotechnology for pollination control in Crucifer oilseed crops.- Regulation of plant morphogenesis in vitro.- Regeneration of plants via somatic embryogenesis.- Protoplast culture and somatic hybridization.- Anther and microspore culture.- Production of transgenic vegetable Brassicas.- Transgenic oilseed Brassicas.- Insect resistance.- Disease resistance.- Herbicide tolerance.- Genetic engineering of lipid composition.- Biochemical genetics of[...]

Fields of interest

Agriculture; Genetic Engineering; Plant Sciences; Biotechnology; Cell Biology; Plant Genetics and Genomics

Target groups

Research

Type of publication

Handbook

More on www.springer.com/978-3-540-20264-6

Hardcover

2004. XVII, 344 p. (Biotechnology in Agriculture and Forestry, Vol. 54)

279,00 €

ISBN 978-3-540-20264-6

usually dispatched within 3 to 5 business days

M. Rahman, A.K. Podder, C. van Hove, Z.N.T. Begum, T. Heulin, A. Hartmann (Eds.)

Biological Nitrogen Fixation Associated with Rice Production

Based on selected papers presented in the International Symposium on Biological Nitrogen Fixation Associated with Rice, Dhaka, Bangladesh, 28 November– 2 December, 1994

Biological nitrogen fixation (BNF) has become important in rice farming systems because this process diminishes the need for expensive chemical fertilizers which have been associated with numerous health and environmental problems. The extensive exploitation of BNF would provide economic benefits to small farmers, avoiding all malign influences of chemical fertilizers. Meanwhile, advances in biotechnology have brought rice genetics to the threshold of new opportunities for increasing rice production. This volume focuses, in six different sessions, on the role of BNF in the improvement of rice production in the light of the current state of the art of BNF technology[...]

Features

Biological nitrogen fixation (BNF) has become important in rice farming systems because this process diminishes the need for expensive chemical fertilizers which have been associated with numerous health and environmental problems. The extensive exploitation of BNF would provide economic benefits to small farmers, avoiding all malign influences of chemical fertilizers. Meanwhile, advances in [...]

Fields of interest

Plant Sciences; Plant Physiology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-4197-0

Hardcover

1996. XVI, 247 p. (Developments in Plant and Soil Sciences, Vol. 70)

184,99 €

ISBN 978-0-7923-4197-0

usually dispatched within 3 to 5 business days

K.G. Ramawat, M.L. Sukhadia University, Udaipur, India (Ed.)

Desert Plants

Biology and Biotechnology

Vast areas of Earth's landmass exist as deserts, representing quite distinct ecosystems. Desert plants and animals have evolved specialised survival strategies to cope with the harsh environment of high temperatures and scarce water resources. The life-supporting vegetation of deserts is characterised by its unique reproductive biology, metabolism and adaptive characters. Plants like *Prosopis cineraria* and date palm form the basis of the rural economy in many countries, and are of great cultural importance; *Jajoba* and *Jatropha* have attracted interest as non-conventional sources of industrial oil and biodiesel. This book includes chapters on the seed biology, reproduction, mycorrhizae, [...]

Features

Vast areas of Earth's landmass exist as deserts, representing quite distinct ecosystems. Desert plants and animals have evolved specialised survival strategies to cope with the harsh environment of high temperatures and scarce water resources. The life-supporting vegetation of deserts is characterised by its unique reproductive biology, metabolism and adaptive characters. Plants like *Prosopis cineraria* and [...]

Fields of interest

Plant Physiology; Plant Breeding / Biotechnology; Plant Anatomy / Development; Agriculture; Plant Ecology; Nature Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-02549-5

Hardcover

2010. XXI, 503p. 144 illus., 1 illus. in color.

199,99 €

Special offer valid until March 31, 2014

100,99 €

ISBN 978-3-642-02549-5

usually dispatched within 3 to 5 business days

P.P. Reddy

Recent advances in crop protection

In the recent years, the need to increase food production to meet the demands of rapidly increasing population from a limited land resource necessitated the use of intensive farming systems, with the inputs like narrow genetic base, high dose of fertilizers, pesticides, irrigation, monocropping, etc. which led to the development of diseases and pest. The effect of changing global climate, particularly the sharp increase in CO₂ concentration, has increased the susceptibility of plants to pathogens and pests. Because of the chemicalization of agriculture, the age-old eco-friendly pest management practices like sanitation, crop rotation, mixed cropping, adjustment of date of planting, [...]

Features

In the recent years, the need to increase food production to meet the demands of rapidly increasing population from a limited land resource necessitated the use of intensive farming systems, with the inputs like narrow genetic base, high dose of fertilizers, pesticides, irrigation, monocropping, etc. which led to the development of diseases and pest. The effect of changing global climate, [...]

Contents

Preface.- chapter 1. introduction.-chapter2. avermectins.-chapter3. bacteriophages.-chapter 4. biofumigation.-chapter 5. biotechnological approaches.-chapter6. bio-priming of seeds.- chapter 7. disguising the leaf surface.-chapter 8. non-pathogenic strains.-chapter 9. plant defense activators.-chapter 10. plant growth promoting rhizobacteria (pgpr).-chapter 11. soil solarization.-chapter 12. strobilurin fungicides.-chapter 13. variety mixtures/cultivar mixtures/multilines.-chapter 14. biointensive integrated pest management.- chapter 15. pathogenesis-related proteins [...]

Fields of interest

Plant Sciences; Plant Ecology; Sustainable Development; Agriculture; Plant Pathology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-81-322-0722-1

Hardcover

2013. XIX, 259 p. 55 illus., 10 illus. in color.

149,95 €

ISBN 978-81-322-0722-1

usually dispatched within 3 to 5 business days

A. Rigueiro-Rodríguez, Universidade Santiago de Compostela, Lugo, Spain; J. McAdam, Univ. Belfast, Belfast, United Kingdom; M.R. Mosquera-Losada, Universidade Santiago de Compostela, Lugo, Spain (Eds.)

Agroforestry in Europe

Current Status and Future Prospects

While recent EU Rural Development policy clearly recognises the economic, ecological, and social advantages of agroforestry systems, to date the implementation of such systems remains poor throughout most of Europe. In light of this, this collection of peer-reviewed papers brings together some of the most important current research in European agroforestry, and evaluates the current scope and future potential of agroforestry across the EU. While the majority of Europe's agroforestry practices are currently focused in the Mediterranean, this volume draws together examples from a wide range of countries – including Greece, Spain, the UK, Hungary, Germany, Italy, The Netherlands, [...]

Features

While recent EU Rural Development policy clearly recognises the economic, ecological, and social advantages of agroforestry systems, to date the implementation of such systems remains poor throughout most of Europe. In light of this, this collection of peer-reviewed papers brings together some of the most important current research in European agroforestry, and evaluates the current scope and future [...]

Contents

1. Definitions and components of agroforestry practices in Europe.- 2. Classifications and functions of agroforestry systems in Europe.- 3. Agroforestry systems in Europe.- 4. Farmer perceptions of silvoarable systems in seven European countries.- 5. Traditional agroforestry systems and their evolution in Greece.- 6. Silvopastoral systems in Portugal.- 7. The function, management and persistence of Dehesas.- 8. Silvopastoral systems in the Northeastern Iberian Peninsula.- 9. Agroforestry systems in Southeastern Spain.- 10. Role of livestock grazing in sustainable use, fire prevention [...]

Fields of interest

Forestry Management; Agriculture; Forestry; Landscape Ecology; Ecosystems

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-8271-9

Hardcover

2009. (Advances in Agroforestry, Vol. 6)

199,99 €

ISBN 978-1-4020-8271-9

usually dispatched within 3 to 5 business days

R. Roetter, Alterra, Wageningen, Netherlands; H. Keulen, Plant Research International, Wageningen, Netherlands; M. Kuiper, Agricultural Univ. Wageningen, Wageningen, Netherlands; J. Verhagen, Wageningen University & Wageningen, Netherlands; H.H. Laar, Wageningen University, Wageningen, Netherlands (Eds.)

Science for Agriculture and Rural Development in Low-income Countries

Since 1998, the Dutch Ministry of Agriculture, Nature Management and Food Quality (LNV) promotes development-orientated agricultural and environmental research and strengthening of North-South partnerships through its International Cooperation (DLO-IC) research programme. By 2005, some 70 collaborative North-South projects had been carried out. All science groups in Wageningen University and Research Centre (WUR) were involved in the implementation of the programme and at least half the projects and activities undertaken were directly related to Rural Development and Sustainable Agriculture (RDSA). Facing new challenges with respect to sustainable development strategies for[...]

Features

Since 1998, the Dutch Ministry of Agriculture, Nature Management and Food Quality (LNV) promotes development-orientated agricultural and environmental research and strengthening of North-South partnerships through its International Cooperation (DLO-IC) research programme. By 2005, some 70 collaborative North-South projects had been carried out. All science groups in Wageningen University and Research Centre [...]

Contents

Preface. Executive Summary. List of Abbreviations. 1. Agriculture in a dynamic world, R.P. Roetter, H. van Keulen, J. Verhagen and M. Kuiper. 2. Historical context of agricultural development, H. van Keulen. 3. Food security, R.P. Roetter and H. van Keulen. 4. Agriculture and environment, J. Verhagen, H. Wösten and A. de Jager. 5. Rural livelihoods: Interplay between farm activities, non-farm activities and the resource base, M. Kuiper, G. Meijerink and D. Eaton. 6. Lessons learned, R.P. Roetter, M. Kuiper, H. van Keulen, J. Verhagen and G. Meijerink. 7. Project assessments, A. de[...]

Fields of interest

Agriculture; Environment (general); Development Economics; Ecology; Geotechnical Engineering & Applied Earth Sciences

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-6616-0

Hardcover

2007.

159,99 €

ISBN 978-1-4020-6616-0

usually dispatched within 3 to 5 business days

J.B. Silver

Mosquito Ecology

Field Sampling Methods

Mosquito Ecology: Field Sampling Methods is the Third Edition of this popular reference work, originally devised and written by Professor M W Service and now updated by John B Silver. The purpose of the third edition is in keeping with the original vision of Professor Service to describe the methods and rationale for sampling mosquitoes, with particular emphasis on the ecology and behaviour of those species that play a role as vectors of human and animal diseases and infections. The book is designed to serve as a practical reference for field entomologists and mosquito control specialists and describes the sampling methods and available trapping technologies and tools for the[...]

Features

Mosquito Ecology: Field Sampling Methods is the Third Edition of this popular reference work, originally devised and written by Professor M W Service and now updated by John B Silver. The purpose of the third edition is in keeping with the original vision of Professor Service to describe the methods and rationale for sampling mosquitoes, with particular emphasis on the ecology and behaviour of those species [...]

Contents

1.Designing a mosquito sampling programme.-2.Sampling the Egg Population.-3.Sampling the Larval Population.-4.Sampling the Emerging Adult Population.-5.Sampling the adult Resting Population.-6.Sampling Adults by Animal Bait Catches and by Animal-Baited Traps.-7.Blood-Feeding and its Epidemiological Significance.-8.Sampling Adults with Non-Attractant Traps.-9.Sampling Adults with Light-Traps.10.Sampling Adults with Carbon Dioxide Traps.-11.Sampling Adults with Visual Attraction Traps, Sound Traps and other Miscellaneous Attraction Traps.-12.Estimation of the Mortalities of the Immature[...]

Fields of interest

Entomology; Animal Ecology; Tropical Medicine

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-4020-6665-8

Hardcover

2008.

299,00 €

ISBN 978-1-4020-6665-8

Online orders shipping within 2-3 days.

B.P. Singh, Forest Science Centre, West Pennant Hills, Australia; A.L. Cowie, NSW Department of Primary Industries, Beecroft, Australia; K.Y. Chan, NSW Department of Primary Industries, Richmond, Australia (Eds.)

Soil Health and Climate Change

“Soil Health and Climate Change” presents a comprehensive overview of the concept of soil health, including the significance of key soil attributes and management of soil health in conventional and emerging land use systems in the context of climate change. Starting with a review of the physical, chemical and biological indicators of soil health and their significance for monitoring the impacts of climate change, this book then focuses on describing the role of soil structure, pH, organic matter, nitrogen, respiration and biota in sustaining the basic functions of soil ecosystems, and their anticipated responses to climate change. Further topics include the management of cropping.[...]

Features

“Soil Health and Climate Change” presents a comprehensive overview of the concept of soil health, including the significance of key soil attributes and management of soil health in conventional and emerging land use systems in the context of climate change. Starting with a review of the physical, chemical and biological indicators of soil health and their significance for monitoring the impacts [...]

Contents

Soil health indicators for the climate change.- Soil attributes and soil processes in response to the climate change.- Conventional land use systems.- Organic farming, biochar and bioenergy systems.

Fields of interest

Agriculture; Climate Change Impacts; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-20255-1

Hardcover

2011. X, 406 p. (Soil Biology, Vol. 29)

149,95 €

ISBN 978-3-642-20255-1

usually dispatched within 3 to 5 business days

S. Sithanatham, Sun Agro Biotech Research Centre, Madanandapuram, Chennai, India; C.R. Ballal, National Bureau of, Bangalore, India; S.K. Jalali, National Bureau of, Bangalore, India; N. Bakthavatsalam, National Bureau of, Bangalore, India (Eds.)

Biological Control of Insect Pests Using Egg Parasitoids

The theme of the book is highly relevant to the current emphasis on environment conservation, with focus on native biodiversity conservation in agroecosystems. The current impetus being given to organic farming and export oriented agri-horticulture in the country calls for access to relevant scientific knowledge base among the stakeholders. Research on biological pest control is more than a century old in India. Egg parasitoids, which are mainly tiny wasps, led by the family Trichogrammatidae, are the most widely utilized natural enemies for biological control globally. Over thirty countries are using these bioagents to protect over 10 million hectares of agricultural and forestry[...]

Features

The theme of the book is highly relevant to the current emphasis on environment conservation, with focus on native biodiversity conservation in agroecosystems. The current impetus being given to organic farming and export oriented agri-horticulture in the country calls for access to relevant scientific knowledge base among the stakeholders. Research on biological pest control is more than a century old in [...]

Contents

Future Thrusts for Egg Parasitoids Research in India.- Biosystematic Studies on Trichogrammatidae with Special Reference to Indian species.- Molecular Taxonomy of Trichogrammatids.- Natural occurrence, Host Range and Distribution of Trichogrammatid Egg Parasitoids.- Trichogrammatids - Behavioural Ecology.- Trichogrammatids : Adaptation to Stresses.- Safety Testing of Pesticides for Integration with Trichogrammatids.- Mass Production of Trichogrammatid Parasitoids.- Trichogrammatids: Integration with other Methods of Pest Control.- Trichogramma: Non-Target Risk Assessment Methodologies[...]

Fields of interest

Entomology; Zoology; Agriculture; Developmental Biology; Plant Pathology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-81-322-1180-8

Hardcover

2013. XVIII, 424 p. 18 illus.

149,99 €

ISBN 978-81-322-1180-8

usually dispatched within 3 to 5 business days

D.J. Snelder, Leiden University, Leiden, Netherlands; R.D. Lasco, World Agroforestry Centre (ICRAF), Los Banos, Laguna, Philippines (Eds.)

Smallholder Tree Growing for Rural Development and Environmental Services

Lessons from Asia

Recent history reveals that both the large-scale reforestation projects of the 20th century have often been less successful than anticipated, and that tree growing by smallholders – as an alternative means to combat deforestation and promote sustainable land use – has received relatively little attention from the scientific and development communities. Taking a first step to addressing that balance, this collection of peer-reviewed papers adopts a comparative approach to explore the potential role that tree growing by farmers can play in sustainable forest management. The goal of this approach is to identify common threads and to start to develop a framework for future research and[...]

Features

Recent history reveals both that the large-scale reforestation projects of the 20th century have often been less successful than anticipated, and that tree growing by smallholders – as an alternative means to combat deforestation and promote sustainable land use – has received relatively little attention from the scientific and development communities. Taking a first step to addressing that [...]

Contents

From the contents: 1. Smallholder tree growing in South and Southeast Asia.- 2. Smallholder tree growing in Philippine back yards.- 3. Tree growing on farms in Northeast Luzon (The Philippines).- 4. Dudukuhan tree farming systems in West Java.- 5. The adoption of smallholder rubber production by shifting cultivators in Northern Laos.- 6. Agroforestation of grasslands in Southeast Asia.- 7. Smallholders and the wood economy in Isabela, the Philippines.- 8. Can smallholder tree farmers help revive the timber industry in deforested tropical countries?- 9. The reforestation value chain for[...]

Fields of interest

Forestry Management; Agriculture; Environmental Management; Marketing; Agricultural Economics; Interdisciplinary Studies

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-8260-3

Hardcover

2008. XXIII, 494 p. (Advances in Agroforestry, Vol. 5)

230,00 €

ISBN 978-1-4020-8260-3

usually dispatched within 3 to 5 business days

S.M. Stead, L. Laird

The Handbook of Salmon Farming

Over the past few years, there has been significant growth and development in the salmon farming industry. In order to be successful, practitioners not only need to know how the salmon lives and survives in the wild but, amongst other things have knowledge of disease, production processes, economics and marketing. The Handbook of Salmon Farming is a practical guide that covers everything the practitioner needs to know, and will also be of great use to academics and students of aquaculture and fish biology. The editors have invited contributions from experts in academia, the fish industry and government to provide an up-to-date and comprehensive handbook.

Features

Over the past few years, there has been significant growth and development in the salmon farming industry. In order to be successful, practitioners not only need to know how the salmon lives and survives in the wild but, amongst other things have knowledge of disease, production processes, economics and marketing. The Handbook of Salmon Farming is a practical guide that covers everything the [...]

Contents

Preface.-Biology of Salmon.-Salmon Production and Technology (FW).-Salmon Production and Technology (SW).-Fish Farming and the Feed Companies.-Post Harvest Handling and Processing.-Marketing Farmed Salmon.-Economic and Business Issues.-Risk Assessment and Management for Fish Farmers.-Environmental Considerations and Legislative Control of Marine Salmon Farming.-Health and Disease in Atlantic Salmon Farming.-Advances in Fish Immunology.-Genetic Management.-Scientific Research: Its Role in Management.

Fields of interest

Zoology; Agriculture; Forestry

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-1-85233-119-1

Hardcover

Jointly published with Praxis Publishing, UK

2002. XXXIII, 502 pp. (Food Sciences)

309,00 €

ISBN 978-1-85233-119-1

usually dispatched within 3 to 5 business days

D. Tave (Ed.)

Genetics for Fish Hatchery Managers

This straightforward, easily understandable primer details the principles and practices of genetics as they relate to fish farming. After reviewing basic genetic principles and the genetics of sex determination, this book focuses on the genetics of qualitative traits and profiles selection programs that produce true breeding populations. It also considers quantitative issues, broodstock management, genetic engineering, chromosomal manipulation and electrophoresis.

Features

This straightforward, easily understandable primer details the principles and practices of genetics as they relate to fish farming. After reviewing basic genetic principles and the genetics of sex determination, this book focuses on the genetics of qualitative traits and profiles selection programs that produce true breeding populations. It also considers quantitative issues, broodstock [...]

Fields of interest

Freshwater & Marine Ecology; Human Genetics; Evolutionary Biology; Animal Systematics / Taxonomy / Biogeography

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-442-00417-0

Hardcover

1993.

259,00 €

ISBN 978-0-442-00417-0

usually dispatched within 3 to 5 business days

P. Tow, I. Cooper, I. Partridge, C. Birch, Leader, Vegetable Centre, Burnie, Australia (Eds.)

Rainfed Farming Systems

While a good grasp of the many separate aspects of agriculture is important, it is equally essential for all those involved in agriculture to understand the functioning of the farming system as a whole and how it can be best managed. It is necessary to re-assess and understand rain-fed farming systems around the world and to find ways to improve the selection, design and operation of such systems for long term productivity, profitability and sustainability. The components of the system must operate together efficiently; yet many of the relationships and interactions are not clearly understood. Appreciation of these matters and how they are affected by external influences or inputs[...]

Features

While agriculturists need a good grasp of the many separate aspects of agriculture, it is essential that they also understand the functioning of farming systems as a whole and how they can be best managed. This book takes such a combined approach. It analyses common rainfed farming systems around the world and discusses both their strengths and ways of improving their operation and management for long term [...]

Contents

Preface.- Foreword.- 1. Principles of a Systems Approach to Agriculture.- 2. Types of Rainfed Farming Systems Around the World.- 3. A Systems Approach to Climate Risk in Rainfed Farming Systems.- 4. Water Availability and Use in Rainfed Farming Systems.- 5. Plant Nutrient Management in Rainfed Farming Systems.- 6. Principles and Management of Soil Biological Factors for Sustainable Rainfed Farming Systems.- 7. Technological Change in Rainfed Farming Systems.- 8. Weed Management in Rainfed Agricultural Systems.- 9. Principles and Methods for Sustainable Disease Management in Rainfed[...]

Fields of interest

Agriculture; Water Industry/Water Technologies; Life Sciences (general); Ecology; Landscape Ecology; Freshwater & Marine Ecology

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-9131-5

Hardcover

2011. XVIII, 1336p. 263 illus..

169,95 €

ISBN 978-1-4020-9131-5

Online orders shipping within 2-3 days.

J.W. Tucker Jr.

Marine Fish Culture

With the depletion of wild fish stocks by factors such as overfishing, habitat degradation, pollution, and red tides, the pressures and incentives for commercial farming of marine food and aquarium fish have increased dramatically. Concurrent with that trend has been an increase in the experimental use of live marine fish in various basic and applied sciences, for example, in developmental, ecological, and toxicological research. Marine Fish Culture is the first comprehensive reference and textbook on this subject and provides information on more than 870 species in 129 families. The book is the product of the author's 27 years of research and teaching in fish culture and[...]

Features

With the depletion of wild fish stocks by factors such as overfishing, habitat degradation, pollution, and red tides, the pressures and incentives for commercial farming of marine food and aquarium fish have increased dramatically. Concurrent with that trend has been an increase in the experimental use of live marine fish in various basic and applied sciences, for example, in developmental, ecological, [...]

Fields of interest

Freshwater & Marine Ecology; Developmental Biology; Nutrition

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-412-07151-5

Hardcover

1998. X, 750 p.

319,00 €

ISBN 978-0-412-07151-5

usually dispatched within 3 to 5 business days

J. Vos, C.D. van Loon, G.J. Bollen (Eds.)

Effects of Crop Rotation on Potato Production in the Temperate Zones

Proceedings of the International Conference on Effects of Crop Rotation on Potato Production in the Temperate Zones, held August 14–19, 1988, Wageningen, The Netherlands

Fields of interest

Plant Sciences; Soil Science & Conservation

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-7923-0495-1

Softcover

1989. (Developments in Plant and Soil Sciences, Vol. 40)

218,00 €

ISBN 978-94-010-7616-6

usually dispatched within 3 to 5 business days

T. Winch

Growing Food

A Guide to Food Production

This specialist handbook is intended as a quick and easy reference guide for individuals and organisations that are involved with the production of food, from both agriculture and horticulture. It is designed to be used as a reference book that answers basic questions about how food is produced from plants, and aims to demystify the subject of growing food as far as possible. The focus is firmly on the technical aspects of food crops; animal husbandry, agrochemicals and genetic engineering are only briefly mentioned. The manual with its strong international flavour is designed to be also used by those who normally speak or read English as their second language, using simple English[...]

Features

This handbook offers a quick and easy reference guide for individuals and organisations that are involved with the production of food, from both agriculture and horticulture. It is designed to be used as a reference book that answers basic questions about how food is produced from plants, and aims to demystify the subject of growing food. The focus is firmly on the technical aspects of food crops; animal [...]

Contents

Section 1. The Principles and Practices Used in Agriculture and Horticulture. A. Plant Growth. B. Arid Regions. C. Soil. D. Fertiliser. E. The Plant. F. The Seed. G. Crops. H. Farming Systems. I. The Harvest. J. Insects. K. Diseases. L. Weeds. M. Tools. N. Irrigation. O. Storage.- Section 2. Description and Characteristics of The Main Food Crops. A. Cereals. B. Legumes. C. Oilseeds. D. Root Crops. E. Vegetables. F. Fruits. G. Under exploited Crops.- Section 3. A. Naming and Classification of Food Crops. B. Seed Purchase Procedures. C. Conversion Tables and Statistics. D. Some issues to[...]

Fields of interest

Agriculture; Food Science; Nutrition; Plant Ecology; Plant Anatomy / Development

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4020-4827-2

Hardcover

2006. IX, 333 p.

86,99 €

ISBN 978-1-4020-4827-2

usually dispatched within 3 to 5 business days

U.B. Zehr, Mahyco Research Centre (MRC), Jalna, India (Ed.)

Cotton

Biotechnological Advances

The growing global population poses the challenge to the scientific community of doubling or tripling the food, feed and fiber production by the year 2050. Biotechnology can make a significant contribution to this effort. This volume reviews the use of biotechnology in cotton, which is the leading plant fiber crop worldwide and grown commercially in more than 50 countries. Renowned experts highlight the success of Bt cotton, the introduction of second and third generation traits and the impact at all levels of farming. Furthermore, the molecular advances being made in cotton biotechnology and the potential traits that will come to market in the next decade are described in detail.

Features

The growing global population poses the challenge to the scientific community of doubling or tripling the food, feed and fiber production by the year 2050. Biotechnology can make a significant contribution to this effort. This volume reviews the use of biotechnology in cotton, which is the leading plant fiber crop worldwide and grown commercially in more than 50 countries. Renowned experts highlight [...]

Contents

Cotton: An Introduction.- Cotton in India.- Cotton Genomics.- Cotton Transformation.- New Tools and Traits for Cotton Improvement.- Insect Tolerant Cotton in India.- Insect Resistance Management for Transgenic Bt Cotton.- Opportunities for Engineering Abiotic Stress Tolerance in Cotton Plants.- Recent Advances in Molecular Biology Research on Cotton Fiber Development.- Global Adoption of Biotech Cotton, 1996 to 2007.- Regulatory Systems and Requirements for Genetically Engineered Cotton from Lab to Land.- Socioeconomic Impacts of Bt (*Bacillus thuringiensis*) Cotton.

Fields of interest

Plant Breeding / Biotechnology

Target groups

Research

Type of publication

Handbook

More on www.springer.com/978-3-642-04795-4

Hardcover

2010. XVI, 245p. 34 illus., 17 illus. in color. (Biotechnology in Agriculture and Forestry, Vol. 65)

199,99 €

ISBN 978-3-642-04795-4

usually dispatched within 3 to 5 business days

Medicine

J.E. Lessenger, Morinda Medical Group Inc., Porterville, USA (Ed.)

Agricultural Medicine

A Practical Guide

This practical guide provides family physicians with a single comprehensive resource on rural and agricultural medicine. Readers are introduced to the characteristics of the agricultural environment and the hazards that farm workers face. The full spectrum of injuries and conditions unique to the field is covered, including chemical injuries, orthopedic conditions, infectious diseases, plant related diseases, bites, and environmental injuries. This clinical text goes beyond the treatment of injuries and highlights prevention. The content is current and reflects changing agricultural practices, including advances in the use of safety equipment and in physical and biological monitoring.[...]

Features

This practical guide provides family physicians with a single comprehensive resource on rural and agricultural medicine. Readers are introduced to the characteristics of the agricultural environment and the hazards that farm workers face. The full spectrum of injuries and conditions unique to the field is covered, including chemical injuries, orthopedic conditions, infectious diseases, plant related [...]

Contents

The Ag Environment.- Food Safety and Ag Med.- Overview of Hazards.- Occupational Regulation.- Education and Training as Intervention Strategies.- Personal Protective Equipment and Safety Engineering of Machinery.- Disability in Ag.- Physical Monitoring.- Bio Monitoring.- Drug Programs and Testing.- Worksite Visits.- Children in Ag.- Chemical Exposure: An Overview.- Fertilizers and Nutrients.- Plant Growth Regulators.- Pesticides.- Neurological Injuries in Ag.- Dermatological Conditions.- Ag Respiratory Diseases.- Renal and Hepatic Disease.- Disease and Injury among Veterinarians.- The[...]

Fields of interest

General Practice / Family Medicine; Primary Care Medicine

Target groups

Professional/practitioner

Type of publication

Handbook

More on www.springer.com/978-0-387-25425-8

Hardcover

2006. XVII, 541p. 15 illus..

66,99 €

ISBN 978-0-387-25425-8

usually dispatched within 3 to 5 business days

S. Loue, Case Western Reserve University, Cleveland, USA; B.E. Quill (Eds.)

Handbook of Rural Health

The Handbook of Rural Health is the first comprehensive multidisciplinary text on this important topic. Experts from the fields of medicine, public health, nursing, dentistry, epidemiology, anthropology, social work, and psychology examine issues relevant to rural populations. This in-depth coverage includes discussions of rural health and policy; methodological issues in conducting research; equity in access to care; and current infrastructures for the delivery of needed care. In addition, the health needs of specific rural populations are considered, including women, children, adolescents, Native Americans, and migrant workers. This much needed resource will be of value[...]

Features

The Handbook of Rural Health is the first comprehensive multidisciplinary text on this important topic. Experts from the fields of medicine, public health, nursing, dentistry, epidemiology, anthropology, social work, and psychology examine issues relevant to rural populations. This in-depth coverage includes discussions of rural health and policy; methodological issues in conducting research; [...]

Fields of interest

Public Health; Sociology, general; Anthropology; Epidemiology; Health Promotion and Disease Prevention

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-306-46479-9

Softcover

2001. X, 370 p.

89,99 €

ISBN 978-1-4419-3347-8

usually dispatched within 3 to 5 business days

H.K. Rabinowitz

Caring for the Country

Family Doctors in Small Rural Towns

Medical students lack role models in rural primary care, contributing to the shortage of family care physicians in rural areas. This book addresses that need by profiling graduates from the Physician Shortage Area Program (PSAP) of Jefferson Medical College, Thomas Jefferson University, who now practice rural family medicine. The text challenges pre-med undergraduates, medical students, and family physicians to consider rural family practice and is an excellent resource for pre-med and medical school advisors. In-depth profiles reveal the everyday reality of the physician shortage through poignant stories and candid dialogue. They cover the social and professional issues that rural[...]

Features

This distinct book profiles ten graduates from the Physician Shortage Area Program (PSAP) of Jefferson Medical College, Thomas Jefferson University, who are now practicing family medicine in small rural towns. Author Howard K. Rabinowitz, MD, Director of the PSAP, invites pre-med undergraduates, medical students, residents, and family physicians to read the compelling stories of these doctors, who enjoy [...]

Contents

Introduction.- Brockway, Pennsylvania.- Nanty Glo, Pennsylvania.- Ovid, New York.- Boswell, Pennsylvania.- Selinsgrove, Pennsylvania.- Bloomsburg, Pennsylvania.- Lock Haven, Pennsylvania.- Morehead City, North Carolina.- Bedford, Pennsylvania.- Corry, Pennsylvania.- Caring for the Country.

Fields of interest

Primary Care Medicine; General Practice / Family Medicine; Medicine (general)

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-0-387-20978-4

Softcover

2004. XII, 262 p.

44,99 €

ISBN 978-0-387-20978-4

usually dispatched within 3 to 5 business days

Philosophy

H.S. James, Jr., University of Missouri, Columbia, USA (Ed.)

The Ethics and Economics of Agrifood Competition

This edited volume presents ethical and economic analyses of agrifood competition. By systematically examining fairness and openness in agricultural markets, it seeks to answer the question of whether there is adequate competition in the agrifood industry and whether the system is fair to all participants. It outlines ethical and economic principles important for understanding agrifood competition, presents arguments for and against consolidation, globalization and the integration of agrifood industries, and looks at the implications of globalization on the nature of competition in specific agricultural contexts.

Features

This edited volume presents ethical and economic analyses of agrifood competition. By systematically examining fairness and openness in agricultural markets, it seeks to answer the question of whether there is adequate competition in the agrifood industry and whether the system is fair to all participants. It outlines ethical and economic principles important for understanding agrifood competition, presents [...]

Contents

About the authors.- Acknowledgements.- 1. Introduction to the Ethics and Economics of Agrifood Competition: Connotations, Complications and Commentary; Harvey S. James, Jr.- Conceptualizing Agrifood Competition.- 2. Conceptualizing Fairness in the Context of Competition: Philosophical Sources; Paul B. Thompson.- 3. Are Ethics and Efficiency Locked in Antithesis?; Yasha Rowher and Randall Westgren.- 4. The Fallacy of "Competition" in Agriculture; Michael E. Sykuta.- 5. Efficiency, Power and Freedom; C. Robert Taylor.- 6. Networks, Power and Dependency in the Agrifood Industry; Harvey[...]

Fields of interest

Ethics; Agricultural Economics; Social Sciences (general)

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-6273-2

Hardcover

2013. XIV, 269 p. 14 illus. (The International Library of Environmental, Agricultural and Food Ethics, Vol. 20)

99,99 €

ISBN 978-94-007-6273-2

usually dispatched within 3 to 5 business days

M. Korthals, Wageningen University, Wageningen, Netherlands

Before Dinner

Philosophy and Ethics of Food

This book is an extensive, original and systematic treatment of many important philosophical and ethical aspects of food (consumption and production). May we eat just anything? Can we do everything with animals, even genetic modification? If not, how can we regulate those processes so that they lead to optimum animal welfare while at the same time producing optimum taste? The production of food also causes environmental pollution – does the fight against hunger have priority over the care of the environment? The care of the environment, animal welfare, and the quality of food should be in a certain harmony, but that is far from granted and hardly easy to achieve. These factors are[...]

Features

This book is an extensive, original and systematic treatment of many important philosophical and ethical aspects of food (consumption and production). The care of the environment, animal welfare, and the quality of food should be in a certain harmony, but that is far from granted and hardly easy to achieve. These factors are often in conflict with each other, and a balance will thus need to be searched for. [...]

Contents

List of tables and figures. Acknowledgment. Foreword.- Chapter 1: Good food, good eating, good living.- Chapter 2: What do philosophers say about nutrition? A brief history.- Chapter 3: Toward a philosophy of nutrition.- Chapter 4: Modern and post-modern lifestyles and foodstyles.- Chapter 5: Ethics and politics of nutrition - liberal versus deliberative perspectives.- Chapter 6: Living with ethical dilemmas.- Chapter 7: Welfare of and respect for living beings. May we eat anything?- Chapter 8: Heaven or hell: scientific production and preparation of food.- Chapter 9: Globalization of[...]

Fields of interest

Ethics; Philosophy of Biology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4020-2992-9

Hardcover

2004. XIV, 214 p. (The International Library of Environmental, Agricultural and Food Ethics, Vol. 5)

149,99 €

ISBN 978-1-4020-2992-9

usually dispatched within 3 to 5 business days

P. Pinstrup-Andersen, P. Sandoe (Eds.)

Ethics, Hunger and Globalization

In Search of Appropriate Policies

"Ethics, Hunger and Globalization" adds an ethics dimension to the debate and research about poverty, hunger, and globalization. Outstanding scholars and practitioners from several disciplines discuss what action is needed for ethics to play a bigger role in action by governments, civil society, and the private sector to reduce poverty and hunger within the context of globalization. The book concludes that much of the rhetoric by policy makers is not followed up with appropriate action, and discusses the role of ethics in attempts to match action with rhetoric. The book also concludes that a better understanding of the values underlying both public and private sector action towards[...]

Features

"Ethics, Hunger and Globalization" adds an ethics dimension to the debate and research about poverty, hunger, and globalization. Outstanding scholars and practitioners from several disciplines discuss what action is needed for ethics to play a bigger role in action by governments, civil society, and the private sector to reduce poverty and hunger within the context of globalization. The book concludes [...]

Contents

From the contents Foreword.- Chapter 1 Introduction and Summary.- Chapter 2 Eliminating Poverty and Hunger in Developing Countries.- Chapter 3 Ethics, Globalization, and Hunger.- Chapter 4 The Ethics of Hunger: Development Institutions and the World of Religion.- Chapter 5 What Hunger-Related Ethics Lessons Can We Learn From Religion? Globalization and the World's Religions.- Chapter 6 Freedom from Hunger as a Basic Human Right.- Chapter 7 Millennium Development Goals and Other Good Intentions.- Chapter 8 What We Know About Poverty and What We Must Do.- Chapter 9 Ethics and Hunger.- [...]

Fields of interest

Ethics; Economic Policy; Social Policy; Philosophy of the Social Sciences

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-6130-1

Hardcover

2007. (The International Library of Environmental, Agricultural and Food Ethics, Vol. 12)

179,99 €

ISBN 978-1-4020-6130-1

usually dispatched within 3 to 5 business days

P.B. Thompson, Michigan State University, East Lansing, USA (Ed.)

Food Biotechnology in Ethical Perspective

Agri-food biotechnology – the genetic transformation of plants and animals through recombinant means – has created controversy in the food system for more than twenty years. This thoroughly revised and amended edition of Paul B. Thompson's path breaking study of ethical and philosophical issues raised by this technology up to date. The original 1997 edition was the first book length treatment by a philosopher to focus on food and agricultural biotechnology, covering ethical issues associated with risk assessment, labelling, animal transformation, patents, and the impact of biotechnology on traditional farming communities in both the developed and developing world. The new edition[...]

Features

Agri-food biotechnology—the genetic transformation of plants and animals through recombinant means —has created controversy in the food system for more than twenty years. This thoroughly revised and amended edition of Paul B. Thompson's path breaking study of ethical and philosophical issues raised by this technology up to date. The original 1997 edition was the first book length treatment by a philosopher to [...]

Contents

Introduction.- Ethical Perspectives on Food Biotechnology.- The Presumptive Case for Food Biotechnology.- Biotechnology policy and the Problem of Unintended Consequences.- Food Safety and the Ethics of Consent.- Animal Health and Welfare.- Ethical Issues in Livestock Cloning.- Ethics and Environmental Impact.- Social Consequences.- Conceptions of Property and the Biotechnology Debate.- Religious and Metaphysical Opposition to Biotechnology.- Communication, Education and the Problem of Trust.- Bibliography.

Fields of interest

Philosophy of Technology; Agriculture; Pragmatism

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-5790-8

Hardcover

Originally published as monograph by Springer US 2007. IX, 340 p. (The International Library of Environmental, Agricultural and Food Ethics, Vol. 10)

99,99 €

ISBN 978-1-4020-5790-8

usually dispatched within 3 to 5 business days

Psychology

S.C. Carr, Massey University, Auckland, New Zealand; T.S. Sloan (Eds.)

Poverty and Psychology

From Global Perspective to Local Practice

Although poverty is a global issue profoundly affecting millions of human beings, the psychology literature rarely focuses on this problem. Poverty and Psychology: From Global Perspective to Local Practice seeks to remedy that by bringing together academics, community practitioners and clinicians who are actively involved in studying the ramifications of poverty in groups and individuals as well as outlining successful methods of participant intervention. With a focus on positive and critical psychology and the resilience of the human spirit, the book brings the psychology of poverty up-to-date with current thinking and scientific approaches, and will inspire and encourage those[...]

Features

Although poverty is a global issue profoundly affecting millions of human beings, the psychology literature rarely focuses on this problem. Poverty and Psychology: From Global Perspective to Local Practice seeks to remedy that by bringing together academics, community practitioners and clinicians who are actively involved in studying the ramifications of poverty in groups and individuals as [...]

Contents

Poverty and Psychology: An Introduction. Stuart C. Carr.- I. Insecurity: Poverty and Power. Isaac Prilleltensky. Poverty and Justice. Stuart C. Carr. Poverty and Psychopathology. Virginia Moreira. Poverty and Unemployment. David Fryer and Rose Fagan. Poverty and Place. Peter Spink.- II. Empowerment: Poverty and Community. Euclides Sánchez, Karen Cronik, and Esther Wiesenfeld. Poverty and Prejudice. Anthony F. Lemieux and Felicia Pratto. Poverty and Wealth. Adrian Furnham. Poverty and Discourse. David J. Harper. Poverty and Economic Crisis. The Aus-Thai Project Team.- III. Opportunity:[...]

Fields of interest

Cross Cultural Psychology; Community & Environmental Psychology; Psychotherapy and Counseling; Clinical Psychology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-0-306-47764-5

Hardcover

2003. VIII, 320 p. (International and Cultural Psychology)

129,99 €

ISBN 978-0-306-47764-5

usually dispatched within 3 to 5 business days

T.K. Ghosh, University of Missouri, Columbia, Columbia, USA; M.A. Prelas, University of Missouri, Columbia, Columbia, USA

Energy Resources and Systems

Volume 2: Renewable Resources

This second volume of Energy Resources and Systems is focused on renewable energy resources. Renewable energy mainly comes from wind, solar, hydropower, geothermal, ocean, bioenergy, ethanol and hydrogen. Each of these energy resources is important and growing. For example, high-head hydroelectric energy is a well established energy resource and already contributes about 20% of the world's electricity. Some countries have significant high-head resources and produce the bulk of their electrical power by this method. However, the bulk of the world's high-head hydroelectric resources have not been exploited, particularly by the underdeveloped countries. Low-head hydroelectric is[...]

Features

This second volume of Energy Resources and Systems is focused on renewable energy resources. Renewable energy mainly comes from wind, solar, hydropower, geothermal, ocean, bioenergy, ethanol and hydrogen. Each of these energy resources is important and growing. For example, high-head hydroelectric energy is a well established energy resource and already contributes about 20% of the world's electricity. Some [...]

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Fields of interest

Energy Policy, Economics and Management; Renewable and Green Energy

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-94-007-1401-4

Hardcover

2011. XII, 727p. 336 illus., 171 illus. in color.

79,95 €

ISBN 978-94-007-1401-4

usually dispatched within 3 to 5 business days

Social Sciences

C.C. Bakels, Leiden University, Leiden, Netherlands

The Western European Loess Belt

Agrarian History, 5300 BC - AD 1000

This book deals with the early history of agriculture in a defined part of Western Europe: the loess belt west of the river Rhine. It is a well-illustrated book that integrates existing and new information, starting with the first farmers and ending when food production was no longer the chief source of livelihood for the entire population. The loess belt was chosen because it is a region with only one type of soil and climate as these are all-important factors where farming is concerned. Subjects covered are crops, crop cultivation, livestock and livestock handling, the farm and its yard, and the farm in connection with other farms. Crop plants and animals are described, together[...]

Features

This book deals with the early history of agriculture in a defined part of Western Europe: the loess belt west of the river Rhine. It is a well-illustrated book that integrates existing and new information, starting with the first farmers and ending when food production was no longer the chief source of livelihood for the entire population. The loess belt was chosen because it is a region with only one type [...]

Contents

Preface.- 1 The loess covered region west of the river Rhine. 5300 BC-AD 1000.- 2 Sources.- 3 The beginning: 5300 BC-4900 BC.- 4 Heirs to the first farmers: 4900-4300 BC.- 5 Innovation and expansion: 4300-2650 BC.- 6 The first millennia of agricultural landscape.- 7 Towards a more complex society: 2650 - 50 BC.- 8 Part of the Roman Empire: 50 BC - AD 407.- 9 The Early Middle Ages: AD 407-AD 1000.- 10 The birth of the rural landscape.- 11 Summing up six millennia of agriculture.- Glossary.- Select bibliography.- Source of figures and tables.- Index

Fields of interest

Archaeology; Agriculture; Geography (general)

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4020-9839-0

Hardcover

2009.

129,99 €

ISBN 978-1-4020-9839-0

usually dispatched within 3 to 5 business days

J.W. Bauer, University of Minnesota, St. Paul, USA; E.M. Dolan, University of New Hampshire, Durham, USA (Eds.)

Rural Families and Work

Context and Problems

Rural Families and Work focuses on the findings of the Rural Families Speak research study and the theoretical frameworks that are utilized to examine the context of rural low-income families' employment. This volume provides a solid foundation for understanding rural employment problems and issues. Family ecological theory is the central framework with a discussion of theories that contribute to the opportunities for the contextual research, including family economic stress theory, human capital, human capability, and some selected policy frameworks. Employment is addressed through review of policy issues, community contexts, family and social support, and available resources.[...]

Features

The recent economic downturn has been especially devastating in America's rural areas, where low wages, sporadic seasonal work, and manufacturing industries moving their plants out of the U.S. are widespread, and grocery stores and health care services may be miles away. Many families eligible for government programs are unaware of them. The transition from welfare to work is made more difficult by not only [...]

Contents

RURAL FAMILIES AND WORK OVERVIEW.- THEORIES FOR STUDYING RURAL FAMILIES AND WORK.- RURAL DOES MATTER: UNDERSTANDING THE RURAL CONTEXT.- MAKING RURAL EMPLOYMENT WORK.- PHYSICAL HEALTH, FOOD SECURITY, AND ECONOMIC WELL-BEING: THE RURAL PERSPECTIVE.- INVISIBLE BARRIERS TO EMPLOYMENT: MENTAL AND BEHAVIORAL HEALTH PROBLEMS THAT HINDER SELF-SUFFICIENCY.- THE CHALLENGE OF CHILD CARE FOR RURAL LOW-INCOME MOTHERS.- RESOURCES AS THE KEY TO RURAL EMPLOYMENT.- "I DON'T KNOW HOW WE WOULD MAKE IT" - SOCIAL SUPPORT IN RURAL LOW-INCOME FAMILIES.- THE EARNED INCOME TAX CREDIT: AN INCENTIVE TO RURAL[...]

Fields of interest

Family; Psychotherapy and Counseling; Social Policy

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-0381-4

Hardcover

2011. XII, 260 p. (International Series on Consumer Science)

119,95 €

ISBN 978-1-4614-0381-4

usually dispatched within 3 to 5 business days

M. Bollig, Universität zu Köln, Köln, Germany

Risk Management in a Hazardous Environment

A Comparative Study of two Pastoral Societies

A research focus on hazards, risk perception and risk minimizing strategies is relatively new in the social and environmental sciences. This volume by a prominent scholar of East African societies is a powerful example of this growing interest. Earlier theory and research tended to describe social and economic systems in some form of equilibrium. However recent thinking in human ecology, evolutionary biology, not to mention in economic and political theory has come to assign to "risk" a prominent role in predictive modeling of behavior. It turns out that risk minimalization is central to the understanding of individual strategies and numerous social institutions. It is not simply a[...]

Features

A research focus on hazards, risk perception and risk minimizing strategies is relatively new in the social and environmental sciences. This volume by a prominent scholar of East African societies is a powerful example of this growing interest. Earlier theory and research tended to describe social and economic systems in some form of equilibrium. However recent thinking in human ecology, evolutionary [...]

Contents

Introduction: Studying Hazard and Risk in Pastoral Societies.- An outline of Pokot and Himba Societies: Environment, Political Economy and Cultural Beliefs.- Hazards and Damages.- The Perception of Droughts and Disasters.- Coping Strategies during a Drought and Disaster.- Buffering Mechanisms: Minimizing Vulnerability.- Hazards, Risk and Risk Minimization in African Pastoral Societies.- Appendix.- References.

Fields of interest

Anthropology; Community & Population Ecology

Target groups

Research

Type of publication

Professional book

More on www.springer.com/978-0-387-27581-9

Hardcover

2006. XXIII, 442 p. (Studies in Human Ecology and Adaptation, Vol. 2)

139,99 €

ISBN 978-0-387-27581-9

usually dispatched within 3 to 5 business days

J.C. Caldwell

Demographic Transition Theory

The demographic transition is the change in the human condition from high mortality and high fertility to low mortality and low fertility. Death is now less capricious and most people live long lives. Women no longer average six or seven births but in most economically advanced countries less than two — insufficient to replenish national populations. Most of this dramatic social change has occurred over the last 150 years. But the question remains as to whether this is a completely new phenomenon or whether there has long been an inherent tendency in the human race to maximize survival and to control family size. Part I addresses the situation among hunters and gatherers, traditional[...]

Features

The demographic transition is the change in the human condition from high mortality and high fertility to low mortality and low fertility. Death is now less capricious and most people live long lives. Women no longer average six or seven births but in most economically advanced countries less than two — insufficient to replenish national populations. Most of this dramatic social change has occurred over the [...]

Contents

From the contents: Preface.- Introduction: The Analytical Approach.- Part I: Issues of Early Transition. Pretransitional population control and equilibrium. Was there a Neolithic mortality crisis? Population intensification theory. Wealth flows revisited. Fertility control in the classical world. Family size control by Infanticide in the great agrarian societies of Asia.- Part II: The Modern Transition. Transmuting the industrial revolution into mortality decline. The delayed Western fertility decline. Regional paths to fertility transition. The globalization of fertility behavior.[...]

Fields of interest

Demography; History; Interdisciplinary Studies; Sexual Behavior

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4020-4373-4

Hardcover

2006. VII, 418 p.

144,99 €

ISBN 978-1-4020-4373-4

usually dispatched within 3 to 5 business days

C.J. Dalglish

Rural Society in the Age of Reason

An Archaeology of the Emergence of Modern Life in the Southern Scottish Highlands

Understanding the emergence of modern society is understanding how today's social relationships came to be historically structured as they are. This work, focused on the Southern Scottish Highlands, is particularly concerned with the growth to predominance of the social relations of capitalism, where the central place of the individual, defined in isolation from wider society, relates to individualized notions of private property and land ownership, land rights and tenancy. This shift in importance of relationships was achieved through improvement, a process involving fundamental change in the ways people engaged with each other. Improvement emphasized the individualized relationships[...]

Features

Understanding the emergence of modern society is understanding how today's social relationships came to be historically structured as they are. This work, focused on the Southern Scottish Highlands, is particularly concerned with the growth to predominance of the social relations of capitalism, where the central place of the individual, defined in isolation from wider society, relates to individualized notions [...]

Fields of interest

Archaeology; Anthropology; History

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-0-306-47725-6

Hardcover

2003. XIV, 262 p. (Contributions To Global Historical Archaeology)

109,99 €

ISBN 978-0-306-47725-6

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N. Glasgow, Cornell University, Ithaca, USA; E.H. Berry, Utah State University, Logan, USA (Eds.)

Rural Aging in 21st Century America

This book investigates sociological, demographic and geographic aspects of aging in rural and non-metropolitan areas of the United States. Population aging is one of the most important trends of the 20th and 21st centuries, and it is occurring worldwide, especially in more developed countries such as the United States. Population aging is more rapid in rural than urban areas of the U.S. In 2010, 15 percent of the nonmetropolitan compared to 12 percent of the metropolitan population were 65 years of age and older. By definition rural communities have smaller sized populations, and more limited health-care, transportation and other aging-relevant services than do urban areas. It is thus[...]

Features

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Contents

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Fields of interest

Aging; Geriatrics / Gerontology; Sociology, general; Migration; Demography; Human Geography

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5566-6

Hardcover

2013. XV, 384 p. 40 illus. (Understanding Population Trends and Processes, Vol. 7)

129,95 €

ISBN 978-94-007-5566-6

usually dispatched within 3 to 5 business days

H.P. Jost, C. Kleineidam

Cotton worldwide

Cotton is grown on every continent, in a broad range of environmental conditions and under widely disparate conditions of production. It is an important raw material for a highly varied and profitable value creation chain, and it is traded on commodities markets throughout the world. Cotton is at the center of the dispute surrounding agricultural subsidies, and it is an important tool in development aid. International chemical companies have just as much interest in it as do advocates of ecological farming, since it consumes more water, fertilizer, and pesticides than any other crop. Cotton was already traveling around the world from producer to consumer in colonial times; all that[...]

Features

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Contents

Introduction by Pietra Rivoli, Portraits of India, Brasilia, China, Mali, Tansania, USA, and Usbeskistan

Fields of interest

Social Sciences (general)

Target groups

Professional/practitioner

Type of publication

Professional book

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Hardcover

2010.

39,90 €

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W.A. Kandel, D.L. Brown (Eds.)

Population Change and Rural Society

This book contains the latest research on social and economic trends occurring in rural America. Conducted by an interdisciplinary and regionally diverse group of social scientists, this original research highlights four major themes transforming contemporary rural areas: population composition change; industrial restructuring and changing livelihoods; changing patterns of rural land use; and areas of persistent disadvantage and emerging opportunity. Each theme is examined with an expanded overview and geographically varied case studies. This volume is the first scholarly assessment exclusively focused on rural demographic trends that exploits data from Census 2000. It contributes to[...]

Features

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Fields of interest

Demography; Sociology, general; Regional Science; Economic Geography; Human Geography

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4020-3911-9

Hardcover

2006. XIX, 467 p. (The Springer Series on Demographic Methods and Population Analysis, Vol. 16)

263,00 €

ISBN 978-1-4020-3911-9

usually dispatched within 3 to 5 business days

L.J. Kulcsár, Kansas State University, Manhattan, USA; K.J. Curtis, University of Wisconsin-Madison, Madison, USA (Eds.)

International Handbook of Rural Demography

This is the third in an essential series of Springer handbooks that explore key aspects of the nexus between demography and social science. With an inclusive international perspective, and founded on the principles of social demography, this handbook shows how the rural population, which recently dropped below 50 per cent of the world total, remains a vital segment of society living in proximity to much-needed developmental and amenity resources. The rich diversity of rural areas shapes the capacity of resident communities to address far-reaching social, environmental and economic challenges. Some will survive, become sustainable and even thrive, while others will suffer rapid[...]

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Fields of interest

Demography; Landscape, Regional and Urban Planning; Population Economics

Target groups

Research

Type of publication

Reference work

More on www.springer.com/978-94-007-1841-8

Hardcover

2012. XIV, 406 p. (International Handbooks of Population, Vol. 3)

249,00 €

ISBN 978-94-007-1841-8

usually dispatched within 3 to 5 business days

B. Wiryomartono

Perspectives on Traditional Settlements and Communities

Home, Form and Culture in Indonesia

This book covers the relationship between societies and their culture in the context of traditional settlement in Indonesia. The focus of the study is on the search for meanings of local concepts. This study reveals and analyzes the concepts concerning home and their sociocultural strategies for maintaining a sense of community and identity. In this study, identifying local concepts becomes the hallmark and the hub of analyses that explore, verify and establish relations between ideas and phenomena. Based on these relations, this study attempts to capture the reality of the local world that upholds and sustains the communities' values, norms and principles for what they may call a[...]

Features

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Fields of interest

Anthropology; Archaeology; Culture - Religion

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-981-4585-04-0

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