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 therefore 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

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**Biomedicine**

E. Rehbitter, Universität Frankfurt, Frankfurt, Germany; M. Englarth, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany; K. Hagen, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany; P.B. Jorgensen, Risoe National Laboratory, Roskilde, Denmark; K. Parvoo Avelaido, Banco Bilbao Vizcaya Argentaria (BBVA), Madrid, Spain; A. Schneke, TU München, Freising, Germany; F. Theile, 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 pharmacueticals 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 pharmacueticals and farming. Pharming constitutes an overlap of red and green biotechnology. It offers the prospect of a quicker, cheaper, and more flexible production[...]

**Contents**


**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

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**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


 Hardcover 2010.
 169,99 €

usually dispatched within 3 to 5 business days
Mass Spectrometry in Food Safety

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

Food Materials Science

J.H. Zhao, Lakehead University, Thunder Bay, ON, Canada; Y. Zhao, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China; K. Biesalski, University of Hohenheim, Stuttgart, Germany

Hidden Hunger

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

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
149,99 €
ISBN 978-0-387-39581-4
usually dispatched within 3 to 5 business days

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

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 €
usually dispatched within 3 to 5 business days

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

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[...]

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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

F. Harding

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Fields of interest
Food Science

Target groups
Research

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Contributed volume

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Fields of interest
Food Science

Target groups
Research

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Contributed volume

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Fields of interest
Food Science

Target groups
Research

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Fields of interest
Food Science
Advances in Food Safety and Defense

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 remain 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

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Contents


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/978-3-211-83240-0

Hardcover

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

139.95 €

ISBN 978-3-211-83240-0

usually dispatched within 3 to 5 business days

Biotechnology of Food Crops in Developing Countries

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

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

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Contents


Fields of interest

Food Science

Target groups

Research

Type of publication

Proceedings

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

Hardcover


129.99 €

ISBN 978-0-387-33509-4

usually dispatched within 3 to 5 business days

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

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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


89.99 €

ISBN 978-3-211-83240-0

usually dispatched within 3 to 5 business days

Developing Countries

Biotechnology of Food Crops in Developing Countries

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

Food Safety

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Fields of interest

Food Science

Target groups

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Type of publication

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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 [...]
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

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 [...] Contents


Fields of interest

Food Science; Chemistry (general); Microbiology; Biochemistry

Target groups

Research

Type of publication

Contributed volume


Hardcover

2003. 386 p.

199,99 €


usually dispatched within 3 to 5 business days

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 Campylobacter 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 Campylobacter 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


39,95 €

ISBN 978-3-540-21286-7

usually dispatched within 3 to 5 business days

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


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. Kume, Alfred-Wegener-Institut für, Potsdam, Germany; G. Lohmann, Universität Bremen, Bremen, Germany; H. Miller, Alfred-Wegener-Institut für, Bremerhaven, Germany; J. Negen- dank, 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
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Contents

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. (IGSS School of Environmental Research)
219,00 €
ISBN 978-3-540-20601-9
usually dispatched within 3 to 5 business days

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 socioeconomic 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 socioeconomic 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.

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 accomplishes 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
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Contents

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
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 [...]
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.

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Contents


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

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


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

139,99 €
ISBN 978-1-4419-0842-1
usually dispatched within 3 to 5 business days

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


Fields of interest

Development Economics; Economic Growth; Economic Policy

Target groups

Research

Type of publication

Contributed volume


Hardcover

2013. XXV, 297 p. 37 illus., 32 illus. in color. (Insight and Innovation in International Development, Vol. 4)
99,95 €
usually dispatched within 3 to 5 business days
Microfinance, Risk-taking Behaviour and Rural Livelihood

Microfinance, risk-taking behavior and rural livelihood are the three dominant 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.

Contents
Chapter 1: Structural Transformation of Rural Finance in India: A Critical Review.
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. XXII, 185 p. 27 illus.
99,99 €
ISBN 978-81-322-1283-6
usually dispatched within 3 to 5 business days
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 has associated emphasis on transaction costs, addresses the environment 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 Poverty [...] 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
149.99 €
ISBN 978-1-4020-7412-7
usually dispatched within 3 to 5 business days

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

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
Econometrics; Development Economics

Target groups
Research

Type of publication
Contributed volume

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

Hardcover
184.99 €
usually dispatched within 3 to 5 business days
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 administration 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 [...]
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...[

Contents

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. 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, etc.

Features
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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

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

C. M. Lindow
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Contents

Fields of interest
Agricultural Economics; Development Economics; Ecology; Environmental Management

Target groups
Research

Type of publication
Contributed volume


Hardcover
2010. XIV, 200p. illus. (Contributions to Economics) 119,99 € ISBN 978-3-7908-2406-3 usually dispatched within 3 to 5 business days

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Contents

Fields of interest
Agricultural Economics; Development Economics; Ecology; Environmental Management

Target groups
Research

Type of publication
Contributed volume


Hardcover
2010. XIV, 200p. illus. (Contributions to Economics) 119,99 € ISBN 978-3-7908-2406-3 usually dispatched within 3 to 5 business days
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


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

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


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

99,95 €
ISBN 978-3-642-21191-1
usually dispatched within 3 to 5 business days

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


Hardcover

2010, XVI, 300p.
129,99 €
usually dispatched within 3 to 5 business days
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

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Contents

PART I: Closing the Knowledge Gap on Gender in Agriculture
1. Closing the Knowledge Gap on Gender in Agriculture
2. Data and Methods for Gender Analysis in Agriculture
3. Understanding Gender and Culture in Agriculture
4. If Women Hold Up Half the Sky, How Much of the World’s Food Do They Produce?
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/978-3-540-69941-5

Hardcover

2007. XIX, 133 p. 18 illus. (Hamburg Studies on Maritime Affairs, Vol. 8)
129,99 €
usually dispatched within 3 to 5 business days
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


Fields of interest

Regional Science

Target groups

Research

Type of publication

Contributed volume

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

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

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 modelling to develop a multidimensional framework that integrates[...]

Contents


Fields of interest

Development Economics; Labor Economics; Social Policy

Target groups

Research

Type of publication

Monograph


Hardcover

usually dispatched within 3 to 5 business days
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 [...]..

Contents


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. 4 illus. in color.
149,99 €
ISBN 978-94-007-1200-3
usually dispatched within 3 to 5 business days

Emerging Development of Agriculture in East Africa

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


Fields of interest

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

Target groups

Research

Type of publication

Contributed volume


Hardcover
149,99 €
usually dispatched within 3 to 5 business days

Emerging Development of Agriculture in East Africa

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 wastage 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

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Contents


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
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

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Contents


Fields of interest

- Educational Policy and Politics; Sustainable Development

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.

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

- 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

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 thorough 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 thorough a concise review of the major theoretical economic frameworks, measures of poverty, and points out the need to understand [...] 

Contents


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
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
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Contents
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


Climate Change; Climate Change Management and Policy; Physical Geography

Target groups

Research

Type of publication

Monograph


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

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


Sustainable Development; Monitoring / Environmental Analysis; Environmental Management

Target groups

Research

Type of publication

Monograph


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

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

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 3 - Changing Societal Paradigms - Education and Gender as Critical Starting Points: Why Gender Matters to Ecological Management and Poverty, Author: Isabelle Gutierrez.
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 €
usually dispatched within 3 to 5 business days

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 Eide
Chapter 2 - Avoiding Poverty Chapter 2 - Avoiding Poverty
Chapter 3 - Situating Poverty A Chain Analysis of Small-Scale Fisheries
Chapter 4 - The Meaning of Poverty Conceptual Issues in Small-Scale Fisheries
Chapter 5 - Living on the Margin The Poverty-Vulnerability Nexus in the Small-Scale Fisheries of Bangladesh By Mohammad Mah Mudul...

Fields of interest

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

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
### 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

### Hardcover

- 194,95 €
- usually dispatched within 3 to 5 business days

### 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


### 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

### Hardcover

- 2014. XVIII, 244 p.
- 99,99 €
- ISBN 978-94-007-7777-4
- Due: December 31, 2013

### 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


### Fields of interest

- Environmental Analysis
- Math. Appl. in Environmental Science
- Sustainable Development

### Target groups

- Research

### Type of publication

- Monograph

### Hardcover

- 2008. (Environmental Science)
- 129,99 €
- ISBN 978-3-540-79073-0
- usually dispatched within 3 to 5 business days
**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 [...]
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 [...]
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
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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 mining and minerals processing industry. Proposed Hierarchy of Natural Resources with Respect to Sustainable Development as a Basis to Derive at 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. XV,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

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 radioactive. 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

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

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

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 €
usually dispatched within 3 to 5 business days
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 globalization and deregulation 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.

Contents

Fields of interest
Geography (general); Environmental Management; Economic Growth; Agriculture

Target groups
Research

Type of publication
Monograph

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

Hardcover
154,95 €
usually dispatched within 3 to 5 business days

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 Americas.

Contents

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
89,99 €
usually dispatched within 3 to 5 business days

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
2016, 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

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

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

P. Ahmad, Sri Patap 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 and applications.

Contents

- Improving nutrient deficiency tolerance in rice
- Ozone stress in Plants: Present scenario and future prospects
- Root 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 Emphasis

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

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 [...] 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 [...] (…)

Features

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- List of figures
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- 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

- 149,99 €
- ISSN 978-94-007-7926-6
- Due: January 31, 2014

Organic farming, prototype for sustainable agriculture

Stakeholders show a growing interest for 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 what circumstances OF&F outperforms conventional agriculture. 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 function- ing to achieve higher self-sufficiency. The second one proposes an overview of organic performances providing commodities and public goods. The third one focuses on organic development [...]

Features

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- 1. Introduction: Organic food and Farming, Prototype for Sustainable Agriculture
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- 1.1 Organic Landcare and Fertilizer
- 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, 1,574 p.
- 149,99 €
- ISBN 978-94-007-7926-6
- Due: January 31, 2014

Organic farming, prototype for sustainable agriculture

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 agricultural. 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 function- ing to achieve higher self-sufficiency. The second one proposes an overview of organic performances providing commodities and public goods. The third one focuses on organic development [...]

Features

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- 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, 1,574 p.
- 149,99 €
- ISBN 978-94-007-7926-6
- Due: January 31, 2014
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

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
194,95 €
ISBN 978-1-85233-118-4
usually dispatched within 3 to 5 business days

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

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

Target groups
Research

Type of publication
Contributed volume


Hardcover
249,00 €
usually dispatched within 3 to 5 business days

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.£/LIST £ 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


Hardcover
344,00 €
usually dispatched within 3 to 5 business days
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 [...]
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 topics,[...]

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

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 [...]
**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 [...]
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 af [...] Fields of interest
Agriculture; Soil Science & Conservation; Forestry

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

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


Hardcover
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.)
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.[...]

Contents

Fields of interest
Zoology; Fish & Wildlife Biology & Management; Animal Ecology; Agriculture

Type of publication
Professional/practitioner

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

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[...]

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

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[...]

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

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[...]

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.

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[...]

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

Hardcover
139,99 €
ISBN 978-94-007-6759-1
usually dispatched within 3 to 5 business days
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, earthworms [...] Features

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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


169.99 €

ISBN 978-3-642-14635-0

usually dispatched within 3 to 5 business days

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


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 €


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

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 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
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

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, poverty, 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, poverty, starvation, rich-nation obesity, water pollution, soil erosion, fertility loss, pest control, and biodiversity depletion. Novel,[...]

Contents
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. Novels, 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
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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


Hardcover
2009. (Sustainable Agriculture Reviews, 2) 229,00 €
usually dispatched within 3 to 5 business days

Sustainable Agriculture, 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. Novels, 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. Novels, [...]

Contents
1. Society issues, painkiller solutions, dependence and sustainable agriculture; Eric Lichtfouse. 2. Sociology of sustainable agriculture; Ezatollah Karami. 3. Sustainable versus organic agriculture; Vito Sardo. 4. Organic agriculture and food production: ecological, environmental, food safety and nutritional quality issues; Reza Ghorbanian. 5. Sustainability of energy crop cultivation in Central Europe; Volkhard Scholz. 6. 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/978-90-481-3332-1

Hardcover
2010. (Sustainable Agriculture Reviews, 3) 199,99 €
usually dispatched within 3 to 5 business days

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. Novels, solutions are proposed based on integrated knowledge from agronomy, soil science, molecular biology, chemistry, toxicology, ecology, economy, 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. Novels, [...]

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. Mehbob Rahman. 4. Phyto-remediation 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. Ahmed Alqudah. 7. Ecological Fertilization; Dr. György Fűleky. 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
ISBN 978-94-007-0185-4
usually dispatched within 3 to 5 business days
**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 [...]   

**Contents**

**Fields of interest**
Agriculture

**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

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**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 [...]   

**Contents**

**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
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


Life Sciences (general); Agriculture; Sustainable Development

Target groups

Graduate

Type of publication

Reviews


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


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

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


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


169,99 €

ISBN 978-3-642-19381-1

usually dispatched within 3 to 5 business days

Progress in Parasitology

Parasites threaten the health of animals and humans alike. Especially in times of increasing globalisation 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 globalisation 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 theilerosis 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


209,00 €

ISBN 978-0-412-59500-4

usually dispatched within 3 to 5 business days

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


209,00 €

ISBN 978-0-412-59500-4

usually dispatched within 3 to 5 business days
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.

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...
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 [...] Features

Fields of interest

Agriculture; Life Sciences (general)

Target groups

Research

Type of publication

Contributed volume


Hardcover


119,99 €


usually dispatched within 3 to 5 business days

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


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

Target groups

Graduate

Type of publication

Contributed volume


Hardcover

2010, XIV, 441 p.

169,99 €


usually dispatched within 3 to 5 business days

Systems approaches for agricultural development


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’ [...] 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 €


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

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

Brassica

Recent advances in plant cell and molecular biology have opened new avenues for the improvement of crop plants in the genus "Brassica" - oilsseeds 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" - oilsseeds 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

Fields of interest
Plant Sciences; Plant Physiology

Target groups
Research

Type of publication
Contributed volume

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

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
Agroforestry in Europe

In the recent years, the need to increase food production to meet the rapidly growing population has driven the development of high-yield crop production systems and the implementation of agroforestry practices. Agroforestry, the integration of trees with crops and/or livestock, has been recognized as a promising strategy for improving land productivity, enhancing biodiversity, and sequestering carbon.

Contents

1. Definitions and components of agroforestry systems
2. Agroforestry systems and their potential for increasing food production
3. Agroforestry systems in Europe: a review of current research
4. Agroforestry and the future of European agriculture
5. Agroforestry and biodiversity
6. Agroforestry and ecosystem services
7. Agroforestry and climate change
8. Agroforestry and rural development
9. Agroforestry and the socioeconomic benefits
10. Agroforestry and the environmental benefits
11. Agroforestry and the global benefits

Features

This book provides a comprehensive overview of the most important current research on European agroforestry, and evaluates the current scope and future potential of agroforestry across the EU. 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, the collection of peer-reviewed papers brings together some of the most important current research on agroforestry, and identifies key areas for future research.

Agroforestry in Europe
P.P. Reddy

Recent advances in crop protection

In recent years, the need to increase food production to meet the rapidly growing population has driven the development of high-yield crop production systems and the implementation of agroforestry practices. Agroforestry, the integration of trees with crops and/or livestock, has been recognized as a promising strategy for improving land productivity, enhancing biodiversity, and sequestering carbon.

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Agroforestry in Europe
P.P. Reddy
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 ecologists and mosquito control specialists and describes the sampling methods and available trapping technologies and tools for the(…)

Features
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Contents

Fields of interest
Entomology: Animal Ecology; Tropical Medicine

Research
More on www.springer.com/978-3-642-20255-1

Hardcover
149,95 €
ISBN 978-3-642-20255-1
usually dispatched within 3 to 5 business days

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

Research
More on www.springer.com/978-3-642-20255-1

Hardcover
149,95 €
ISBN 978-3-642-20255-1
usually dispatched within 3 to 5 business days
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 agro-ecosystems. 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 agro-ecosystems. 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 [...]
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.

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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

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

Agriculture; Water Industry/Water Technologies; Life Sciences (general); Ecology; Landscape Ecology; Freshwater & Marine Ecology

Target groups
Graduate

Type of publication
Contributed volume


Hardcover
319,00 €
usually dispatched within 3 to 5 business days

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

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Freshwater & Marine Ecology; Developmental Biology; Nutrition

Target groups
Research

Type of publication
Contributed volume


Hardcover
319,00 €
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Freshwater & Marine Ecology; Developmental Biology; Nutrition

Target groups
Research

Type of publication
Contributed volume


Hardcover
319,00 €
usually dispatched within 3 to 5 business days
Effects of Crop Rotation on Potato Production in the Temperate Zones

J. Vos, C.D. van Loon, G.J. Bollen (Eds.)


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

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, agro-chemicals 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
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Contents

Fields of interest
Agriculture; Food Science; Nutrition; Plant Ecology; Plant Anatomy / Development

Target groups
Research

Type of publication
Monograph


Hardcover
86,99 €
usually dispatched within 3 to 5 business days

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

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**

**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.[...]

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**Contents**


**Fields of interest**

General Practice / Family Medicine; Primary Care Medicine

**Target groups**

Professional/practitioner

**Type of publication**

Handbook


**Hardcover**

2006. XVII, 541p. 15 illus.
66,99 €
usually dispatched within 3 to 5 business days

**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


**Softcover**

89,99 €
ISBN 978-1-4419-3347-8
usually dispatched within 3 to 5 business days

**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**


**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**

44,99 €
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
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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 [...] 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 food.- [...] 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 food.- [...] Fields of interest Ethics; Philosophy of Biology

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 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 [...] 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 Ethics Lessons Can We Learn From Religion? Globalization and the World’s Religions.- Chapter 7 Millennium Development Goals and Freedom from Hunger as a Basic Human Right.- Chapter 7 Millennium Development Goals and Freedom from Hunger as a Basic Human Right.- 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

P. Pinstrup-Andersen, P. Sandøe (Eds.)
Food Biotechnology in Ethical Perspective

Agrifood 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
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Contents

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
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

Fields of interest
Philosophy of Technology; Agriculture; Pragmatism

Target groups
Research

Type of publication
Contributed volume


Hardcover
129,99 €
usually dispatched within 3 to 5 business days

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
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Contents

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**

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**Contents**


**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

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**Agrarian History, 5300 BC - AD 1000**

C. C. Bakels, Leiden University, Leiden, Netherlands

**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 reviews 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 FAMILIES. - 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**

Anthropology; Community & Population Ecology

**Target groups**

Research

**Type of publication**

Professional book


**Hardcover**

2006. XXIII, 442 p. (Studies in Human Ecology and Environment) 139,99 €


usually dispatched within 3 to 5 business days

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**Risk Management in a Hazardous Environment**

A Comparative Study of two Pastoral Societies

J.W. Bauer, University of Minnesota, St. Paul, USA; E.M. Dolan, University of New Hampshire, Durham, USA (Eds.)

**Context and Problems**

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**Contents**


**Fields of interest**

Anthropology; Community & Population Ecology

**Target groups**

Research

**Type of publication**

Professional book


**Hardcover**


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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 now less capricious and most people live long lives. Women no longer average six or seven births but now less capricious and most people live long lives. Women no longer average six or seven births but now less capricious and most people live long lives.

Contents
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
144,99 €
ISBN 978-1-4020-4373-4
usually dispatched within 3 to 5 business days

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
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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 €
usually dispatched within 3 to 5 business days

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

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
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 [...]
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 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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