Earth Sciences

M. Bostenaru Dan, Ion Mincu University, Bucharest, Romania; I. Armas, University of Bucharest, Bucharest, Romania; A. Goretti, Seismic and Volcanic Risk Office, Rome, Italy (Eds.)

Earthquake Hazard Impact and Urban Planning

The classical field dealing with earthquakes is called "earthquake engineering" and considered to be a branch of structural engineering. In projects dealing with strategies for earthquake risk mitigation, urban planning approaches are often neglected. Today interventions are needed on a city, rather than a building, scale. This work deals with the impact of earthquakes, including also a broader view on multihazards in urban areas. Uniquely among other works in the field, particular importance is given to urban planning issues, in conservation of heritage and emergency management. Multicriteria decision making and broad participation of those affected by disasters are included.

Features

The classical field dealing with earthquakes is called "earthquake engineering" and considered to be a branch of structural engineering. In projects dealing with strategies for earthquake risk mitigation, urban planning approaches are often neglected. Today interventions are needed on a city, rather than a building, scale. This work deals with the impact of earthquakes, including also a broader view on [...] 

Contents

Part I: Urban hazard, exposure and vulnerability.
Part II: Earthquake risk assessment.
Part III: Risk management.
Part IV: Impact and Decision making tools.

Fields of interest

Natural Hazards; Environmental Management; Landscape, Regional and Urban Planning

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7980-8

Hardcover

2014, I, 199 p. 155 illus., 100 illus. in color. (Environmental Hazards)
ISBN 978-94-007-7980-8
Due: January 31, 2014

S. Buhl, Meteorite Recon, Hamburg, Germany; D. McCall

Henbury Craters and Meteorites

Their Discovery, History and Study

In 1931, the cluster of craters at Henbury Cattle Station south of Alice Springs in Central Australia was one of the first places on Earth where a group of impact structures could definitely be linked to the fall of iron meteorites. It was also the first place where radial rays and loops of ejected rock material, comparable to those seen around craters on the Moon, were observed. As such it was one of the primary observation sites associated with the science of meteoritics in its infancy. In this work the authors present previously unpublished documents covering early research at the Henbury site, provide an extended data set on the distribution of meteoritic material at Henbury[...]

Features

In 1931, the cluster of craters at Henbury Cattle Station south of Alice Springs in Central Australia was one of the first places on Earth where a group of impact structures could definitely be linked to the fall of iron meteorites. It was also the first place where radial rays and loops of ejected rock material, comparable to those seen around craters on the Moon, were observed. As such it was one of the [...] 

Contents


Fields of interest

Geology; Historical Geology; Extraterrestrial Physics, Space Sciences; Popular Science in Astronomy

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-03954-1

Softcover

2014, 168 p. 125 illus., 87 illus. in color. (GeoGuide) ISBN 978-3-319-03954-1
Due: February 28, 2014

N. Di Dato, Met European Research Observatory, Benevento, Italy; G. Bellucci (Eds.)

Storminess and Environmental Change

Climate Forcing and Responses in the Mediterranean Region

This book describes recent developments in the modeling of hydro-climatological processes in time and space. The topic brings together a wide range of disciplines, such as climatology, hydrology, geomorphology and ecology, with examples of problems and related modeling approaches. Parsimonious hydro-climatological models hold the potential to simulate the combined effects of rainfall intensity and distribution patterns in the absence of precipitation records for short time intervals (e.g. daily to sub-hourly) and over large areas (e.g. regional to continental). In this book, we show how the principle of parsimony can be followed without sacrificing depth in seeking to understand ( [...] 

Features

This book describes recent developments in the modeling of hydro-climatological processes in time and space. The topic brings together a wide range of disciplines, such as climatology, hydrology, geomorphology and ecology, with examples of problems and related modeling approaches. Parsimonious hydro-climatological models hold the potential to simulate the combined effects of rainfall intensity and [...] 

Contents


Fields of interest

Natural Hazards; Meteorology; Earth System Sciences; Simulation and Modeling; Geographical Information Systems / Cartography

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-94-007-7947-1

Hardcover

Due: January 31, 2014
Engineering Geology for Underground Works

The construction of tunnels involves the resolution of various complex technical problems depending on the geological and geological-environmental context in which the work fits. Only a careful analysis of all the geological and geological-environmental issues and a correct reconstruction of the conceptual model can lead to optimal design solutions from all points of view (including financial) and ensure the safety of workers during the construction and users in the operation phase. It was therefore felt that there was a need to collect in one volume the state of current knowledge about all the geological and environmental issues related to the construction of underground works.

Features
The construction of tunnels involves the resolution of various complex technical problems depending on the geological and geological-environmental context in which the work fits. Only a careful analysis of all the geological and geological-environmental issues and a correct reconstruction of the conceptual model can lead to optimal design solutions from all points of view (including financial).

Contents

Fields of interest
Environmental Science and Engineering; Natural Hazards; Geoengineering; Foundations, Hydraulics; Quality Control, Reliability, Safety and Risk

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-94-007-7849-8

Adapting to Climate Change

Lessons from Natural Hazards Planning

This book identifies lessons learned from natural hazard experiences to help communities plan for and adapt to climate change. Written by leading experts, the case studies examine diverse experiences, from severe storms to sea-level related hazards, droughts, heat waves, wildfires, floods, earthquakes and tsunamis, in North America, Europe, Australasia, Asia, Africa and Small Island Developing States. The lessons are grouped according to four imperatives: (i) Develop collaborative governance networks; (ii) build adaptive capabilities; (iii) invest in pre-event planning; and (iv) the moral imperative to undertake adaptive actions that advance resilience and sustainability.

Features
This book identifies lessons learned from natural hazard experiences to help communities plan for and adapt to climate change. Written by leading experts, the case studies examine diverse experiences, from severe storms to sea-level related hazards, droughts, heat waves, wildfires, floods, earthquakes and tsunamis, in North America, Europe, Australasia, Asia, Africa and Small Island Developing States. The lessons are grouped according to four imperatives: (i) Develop collaborative governance networks; (ii) build adaptive capabilities; (iii) invest in pre-event planning; and (iv) the moral imperative to undertake adaptive actions that advance resilience and sustainability.

Contents
Section 1: Climate change adaptation: Theory and practice.- Section 2: The nature of disasters and the role natural hazards planning in building resilient communities.- Section 3: Lessons from disaster experience.

Fields of interest
Natural Hazards; Climate Change Impacts; Climate Change Management and Policy

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-017-8630-0

Hardcover
2014, X, 340 p. 61 illus., 55 illus. in color. (Environmental Hazards) ISBN 978-94-017-8630-0

Due: February 28, 2014

Effective Parameters of Hydrogeological Models

Geological models used in predictive hydrogeological modeling are not exact replicas of the objects they represent: many details related to structures and properties of the objects remain unknown. Those details may considerably affect simulation results. A provable evaluation of the uncertainty of hydrogeological and solute transport simulations is almost impossible. In this book, the author describes how to obtain the best-possible results in simulations, based on the available data and predefined criteria that are turned into transforming mechanisms. The latter are mathematical expressions for evaluating model parameters supporting effective simulations. Examples of the mechanisms:

Features
Geological models used in predictive hydrogeological modeling are not exact replicas of the objects they represent: many details related to structures and properties of the objects remain unknown. Those details may considerably affect simulation results. A provable evaluation of the uncertainty of hydrogeological and solute transport simulations is almost impossible. In this book, the author describes how to:

Contents

Fields of interest
Hydrogeology; Hydrology / Water Resources; Engineering Design; Geotechnical Engineering & Applied Earth Sciences

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-319-03568-0

Hardcover
2014, XXI, 182 p. 68 illus., 35 illus. in color. (Environmental Hazards) ISBN 978-3-319-03568-0

Due: December 31, 2013
Quantitative Biochronology
A Graph Theoretical Approach

Fields of interest
Geology; Paleontology

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-10337-7

Hardcover
ISBN 978-3-642-10337-7
Due: December 29, 2014

R. Hekinian

Sea Floor Exploration
Scientific Adventures Diving into the Abyss

The author participated 38 expeditions including the first manned-submersible project to explore the Mid-Atlantic Ridge. This book provides a comprehensive overview of the past 45 years of sea floor exploration. It summarizes the mineralogical and petrological composition of sea floor rocks, ocean floor volcanism in relation with the geological setting as well as the discovery of hydrothermal activity and related to metalliferous deposits. Topics covered include the creation of the sea floor, its fracture zones and the structural setting of subduction zones.

Features
The author participated 38 expeditions including the first manned-submersible project to explore the Mid-Atlantic Ridge. This book provides a comprehensive overview of the past 45 years of sea floor exploration. It summarizes the mineralogical and petrological composition of sea floor rocks, ocean floor volcanism in relation with the geological setting, as well as the discovery of hydrothermal activity and [...]

Contents
Introduction.- The birth of planet Earth.- Man’s penetration into the abysses.- Sea floor rocks.- Earth’s mantle melting and volcanism.- Hydrothermal activity and metalliferous deposits.- Oceanic ridges: Sea floor creation.- Fracture zones.- Voyage to Antarctica region.- Hotspots.- Subduction zones.

Fields of interest
Oceanography; Geology

Target groups
Popular/general

Type of publication
Monograph

More on www.springer.com/978-3-319-03202-3

Hardcover
2014. XV, 370 p. 115 illus. (Springer Oceanography)
ISBN 978-3-319-03202-3
Due: January 31, 2014

L. Hottinger, D. Bassi, University of Ferrara, Ferrara, Italy (Ed.)

Paleogene larger rotaliid foraminifera from the western and central Neotethys

This book provides a representative assessment of the state of the art of research on Paleogene rotaliid larger foraminifera. It gives an overview of the current understanding of systematics of this group and, in particular, of its biostratigraphic importance and palaeobiogeography. The senior author of the work, late Prof Hottiger, a leading scientist in the field, both from a systematic and applied side, presents in this book his most recent advances. The foraminiferal family Rotaliidae is a traditional group used frequently which plays an important role for petroleum exploration in the biostratigraphy and palaeobiogeography of Paleogene shallow water deposits in the Middle East.[...]

Features
This book provides a representative assessment of the state of the art of research on Paleogene rotaliid larger foraminifera. It gives an overview of the current understanding of systematics of this group and, in particular, of its biostratigraphic importance and palaeobiogeography. The senior author of the work, late Prof Hottiger, a leading scientist in the field, both from a systematic and applied side, [...]

Contents
Introduction.- Rotaliid shell architecture and the palaeodiversity of the Lockhartia Sea.- The system of the Rotaliidae, an overview.- Subfamily Rotaliinae Ehrenberg, 1839.- New subfamily Redmondini.- New subfamily Lockhartini.- New subfamily Kathininae.- New subfamily Daviesininae.- Some taxa that are or remain excluded from the family Rotaliidae.- Rotaliid taxa with uncertain affinities.

Fields of interest
Paleontology; Biogeosciences; Economic Geology; Fossil Fuels (incl. Carbon Capture)

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-319-02852-1

Hardcover
2014. 200 p. 123 illus. (Springer Oceanography)
ISBN 978-3-319-02852-1
Due: April 11, 2014
Percolation Theory for Flow in Porous Media

This monograph presents, for the first time, a unified and comprehensive introduction to some of the basic transport properties of porous media, such as electrical and hydraulic conductivity, air permeability and diffusion. The approach is based on critical path analysis and the scaling of transport properties, which are individually described as functions of saturation. At the same time, the book supplies a tutorial on percolation theory for hydrologists, providing them with the tools for solving actual problems. In turn, a separate chapter serves to introduce physicists to some of the language and complications of groundwater hydrology necessary for successful modeling. The...

Features

This monograph presents, for the first time, a unified and comprehensive introduction to some of the basic transport properties of porous media, such as electrical and hydraulic conductivity, air permeability and diffusion. The approach is based on critical path analysis and the scaling of transport properties, which are individually described as functions of saturation. At the same time, the book supplies [...]

Contents


Fields of interest

Hydrogeology; Statistical Physics, Dynamical Systems and Complexity; Geoenvironmental, Foundations, Hydraulics; Numerical and Computational Physics

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-03770-7

Sustainable Living with Environmental Risks

We are not free from environmental risks that accompany the development of human societies. Modern economic development has accelerated environmental pollution, caused loss of natural habitats, and modified landscapes. These environmental changes have impacted natural systems: water and heat circulation, nutrient cycling, and biodiversity. These changes in natural systems degrade ecosystem services and subsequently increase environmental risks for humans. Environmental risks, therefore, are not only human health risks by pollution, climatic anomalies, and natural disasters, but also degradation of ecosystem services on which most people are relying for their lives. We cannot entirely...

Features

We are not free from environmental risks that accompany the development of human societies. Modern economic development has accelerated environmental pollution, caused loss of natural habitats, and modified landscapes. These environmental changes have impacted natural systems: water and heat circulation, nutrient cycling, and biodiversity. These changes in natural systems degrade ecosystem services and...

Contents


Fields of interest

Earth System Sciences; Environmental Management; Sustainable Development

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-03770-7

Geology of Russia

The Geology of Russia and Adjacent Areas overviews and synthesizes a wealth of recent isotopic, geochemical, seismic, paleomagnetic, stratigraphic, structural and other studies carried out by Russian and international research teams over the past few decades. Numerous illustrations and tables provide easy access to a huge amount of new geochemical and geophysical data as well as the latest geological mapping of Russia. The volume will provide researchers and graduated students with broad, up-to-date information on geology, mineral deposit and hydrocarbon potential, and the tectonic evolution of northern Eurasia.

Features

The Geology of Russia and Adjacent Areas overviews and synthesizes a wealth of recent isotopic, geochemical, seismic, paleomagnetic, stratigraphic, structural and other studies carried out by Russian and international research teams over the past few decades. Numerous illustrations and tables provide easy access to a huge amount of new geochemical and geophysical data as well as the latest geological [...]

Contents

Tectonic overview. - Eastern European Craton (Russian part). - Timan-Pechora sedimentary basin and Timan fold and thrust belt. - Western Siberia sedimentary basin. - Scythian sedimentary basin. - Sub-Caspian sedimentary basin. - Caucasus fold and thrust belt. - Uralin fold and thrust belt. - Fold and thrust belts of Altaiides and Tiem-Shan. - Siberian Craton. - Verkhoyansk and Alazeya fold and thrust belts. - Taimyr-Severnaya Zemlya fold and thrust belt. - Yinsey fold and thrust belt. - Fold and thrust belts of Central Asia. - Fold and thrust belts of the Pacific rim. - Overview of metallogeny of [...]

Fields of interest

Geology; Geocology / Natural Processes; Physical Geography; Economic Geology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-05102-9

Hardcover

2014. 410 p. 90 illus., 60 illus. in color. (Regional Geology Reviews)

ISBN 978-3-642-05102-9

Due: January 29, 2014
Ocean-Atmosphere Interactions of Gases and Particles

The oceans and atmosphere interact through various processes, including the transfer of momentum, heat, gases, and particles. In this book leading international experts come together to provide a state-of-the-art account of these exchanges and their role in the Earth-system, with particular focus on gases and particles. Chapters in the book cover: i) the ocean-atmosphere exchange of short-lived trace gases; ii) mechanisms and models of interfacial exchange (including transfer velocity parameterisations); iii) ocean-atmosphere exchange of the greenhouse gases carbon dioxide, methane and nitrous oxide; iv) ocean atmosphere exchange of particles and v) current and future data collection.

Features
The oceans and atmosphere interact through various processes, including the transfer of momentum, heat, gases, and particles. In this book leading international experts come together to provide a state-of-the-art account of these exchanges and their role in the Earth-system, with particular focus on gases and particles. Chapters in the book cover: i) the ocean-atmosphere exchange of short-lived trace gases; [...]
Nile River Basin
Ecological Challenges, Climate Change and Hydropolitics
The book provides a comprehensive overview of the hydrology of the Nile River, especially the ecologically fragile situation and challenges the basin is facing. The text covers the impact of climate change on water availability and the transboundary water management issues. The book includes an analysis and approaches that will help provide different insights into the hydrology of this complex basin, which covers eleven countries and is home to over 300 million people. The need for water-sharing agreements that reflect the current situations of riparian countries and are based on equitable water-sharing principles is stressed in many chapters. This book explores water resource availability and quality and [...] Features
The book provides a comprehensive overview of the hydrology of the Nile River, especially the ecologically fragile situation and challenges the basin is facing. The text covers the impact of climate change on water availability and the transboundary water management issues. The book includes an analysis and approaches that will help provide different insights into the hydrology of this complex basin, which covers eleven countries [...] Contents
Hydrogeology; Hydrology / Water Resources; Physical Geography; Climate Change Target groups
Research Type of publication
Monograph More on www.springer.com/978-3-319-02719-7
Hardcover
2014, I, 199 p. 227 illus., 172 illus. in color. ISBN 978-3-319-02719-7
Due: February 28, 2014

Schumann Resonance for Tyros
Essentials of Global Electromagnetic Resonance in the Earth–Ionosphere Cavity
Schumann resonance has been studied for more than half a century. The field became popular among researchers of the terrestrial environment using natural sources of electromagnetic radiation—lightning strokes, primarily—and now many Schumann observers have been established around the world. A huge number of publications can be found in the literature, the most recent collection of which was presented in a special Schumann resonance section of the journal Radio Science in 2007. The massive publications, however, impede finding information about how to organize measurements and start observations of global electromagnetic resonance. Relevant information is scattered throughout many [...] Features
Schumann resonance has been studied for more than half a century. The field became popular among researchers of the terrestrial environment using natural sources of electromagnetic radiation—lightning strokes, primarily—and now many Schumann observers have been established around the world. A huge number of publications can be found in the literature, the most recent collection of which was presented in a [...] Contents
Introductory information - Choosing a site and positioning of equipments - Calibrating the antennas - Spectra of continuous SR background - Regular SR parameters - Disturbances in SR - Coherence of SR - SR line splitting - Transient events - Inverse problem of SR - SR and global temperature - Signals in adjoining frequency bands - Extraordinary ELF signals - Supplementary material Fields of interest
Geophysics / Geodesy; Atmospheric Sciences; Statistical Physics, Dynamical Systems and Complexity Target groups
Research Type of publication
Hardcover
2014, XII, 286 p. 86 illus. (Regional Climate Studies) ISBN 978-3-319-03767-7
Due: January 31, 2014

Climate Change in North America
This book describes thoroughly the North American climate of the past 65 million years, with special emphasis on the last 21,000 years, as revealed by paleoclimatic observations and climate models. It analyzes weather observations over the past century to develop a picture of more recent climatic trends. It aims to explain how global climate models are used to simulate and project climate and presents the application of these models to reproduce recent climate variations and predict future North American climate. Features
This book describes thoroughly the North American climate of the past 65 million years, with special emphasis on the last 21,000 years, as revealed by paleoclimatic observations and climate models. It analyzes weather observations over the past century to develop a picture of more recent climatic trends. It aims to explain how global climate models are used to simulate and project climate and presents the [...] Contents
Introduction - Paleoclimate - Current Climate and Recent Trends - Satellite Observations of North American Climate Change - Global Climate Model Simulations of North America - Downscaling of Climate Information - Detection and Attribution of Climate Change in North America Fields of interest
Atmospheric Sciences; Climate Change; Physical Geography Target groups
Research Type of publication
Monograph More on www.springer.com/978-3-319-03767-7
Hardcover
2014, XII, 286 p. 86 illus. (Regional Climate Studies) ISBN 978-3-319-03767-7
Due: January 31, 2014
Geomicrobiology and Biogeochemistry

Over the past 4 billion years, microorganisms have contributed to shaping the earth and making it more habitable for higher forms of life. They are remarkable in their metabolic diversity and their ability to harvest energy from oxidation and reduction reactions. Research on these microbiological processes has led to the newly evolving fields of geomicrobiology and biogeochemistry, linking the geosphere and the biosphere. This volume of the Soil Biology series provides an overview of the biogeochemical processes and the microorganisms involved, with an emphasis on the industrial applications. Topics treated include aspects such as bioremediation of contaminated environments, biomining, [...] 

Features

Over the past 4 billion years, microorganisms have contributed to shaping the earth and making it more habitable for higher forms of life. They are remarkable in their metabolic diversity and their ability to harvest energy from oxidation and reduction reactions. Research on these microbiological processes has led to the newly evolving fields of geomicrobiology and biogeochemistry, linking the geosphere and [...] 

Contents


Fields of interest

Biogeoosciences; Microbiology; Applied Microbiology 

Target groups

Research 

Type of publication

Contributed volume

More on www.springer.com/978-3-642-41836-5

Hardcover


Due: January 31, 2014

Danxiashan Global Geopark

This book presents the most outstanding and beautiful red bed landscapes in the world, which in 2004 were included in UNESCO’s “Global Geoparks Network”, Danxiashan. Located in the Chinese Province of Guangdong, it is composed of natural elements such red rocks mainly from the Cretaceous age, green subtropical vegetation and blue waters. Furthermore, it is the name-giving region of the “Danxia landforms”, a term which has gained scientific and popular acceptance in the past 80 years. Danxia, meaning red cloud glow, is an absolutely wonderful name for a geological and geomorphic phenomenon that is based on a long record of geological history, a distinct development of landscapes [...] 

Features

This book presents the most outstanding and beautiful red bed landscapes in the world, which in 2004 were included in UNESCO’s “Global Geoparks Network”, Danxiashan. Located in the Chinese Province of Guangdong, it is composed of natural elements such red rocks mainly from the Cretaceous age, green subtropical vegetation and blue waters. Furthermore, it is the name-giving region of the “Danxia landforms”, [...]

Contents


Fields of interest

Geology; Physical Geography; Geocology / Natural Processes 

Target groups

Research 

Type of publication

Monograph

More on www.springer.com/978-3-642-15903-9

Hardcover

2014. XV, 320 p. 100 illus. in color. (Geoheritage, Geoparks and Geotourism) ISBN 978-3-642-15903-9 

Due: July 29, 2014

SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk

Buildings, Lifelines, Transportation Networks and Critical Facilities

Fragility functions constitute an emerging tool for the probabilistic seismic risk assessment of buildings, infrastructures and lifeline systems. The work presented in this book is a partial product of a European Union funded research project SYNER-G (FP7 Theme 6: Environment) where existing knowledge has been reviewed in order to extract the most appropriate fragility functions for the vulnerability analysis and loss estimation of the majority of structures and civil works exposed to earthquake hazard. Results of other relevant European projects and international initiatives are also incorporated in the book. In several cases new fragility and vulnerability functions have been [...] 

Features

Fragility functions constitute an emerging tool for the probabilistic seismic risk assessment of buildings, infrastructures and lifeline systems. The work presented in this book is a partial product of a European Union funded research project SYNER-G (FP7 Theme 6: Environment) where existing knowledge has been reviewed in order to extract the most appropriate fragility functions for the vulnerability [...] 

Contents


Fields of interest

Geotechnical Engineering & Applied Earth Sciences; Civil Engineering; Natural Hazards; Geophysics / Geodesy 

Target groups

Research 

Type of publication

Monograph

More on www.springer.com/978-94-007-7871-9

Hardcover


Due: January 31, 2014
Gondwana Landscapes in southern South America
Argentina, Uruguay and southern Brazil

This book presents extensive and new information on the geomorphology of cratonic areas of southern South America. It includes valuable data relating to recurrent controversies in general geomorphology beyond the boundaries of South America and reveals the great need to integrate many different aspects of geomorphology in regional studies. With the focus on ancient landscapes and especially on planation surfaces it addresses the question of what processes could form such huge features, and how they can be preserved for so long. Many of the papers include maps of planation surfaces or other geomorphic units. The volume brings together an up-to-date, state-of-the-art collection of [...] 

Features
This book presents extensive and new information on the geomorphology of cratonic areas of southern South America. It includes valuable data relating to recurrent controversies in general geomorphology beyond the boundaries of South America and reveals the great need to integrate many different aspects of geomorphology in regional studies. With the focus on ancient landscapes and especially on planation [...] 

Contents

Fields of interest
Earth System Sciences; Physical Geography; Geology / Natural Processes

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-7701-9

Hardcover

Due: February 28, 2014

V.V. Ryabov, Russian Academy of Sciences, Novosibirsk, Russian Federation; A.Y. Shevko, Russian Academy of Sciences, Novosibirsk, Russian Federation; M.P. Gora, Russian Academy of Sciences, Novosibirsk, Russian Federation

Towards Sustainable Livelihoods and Ecosystems in Mountain Regions

Sustainable livelihoods and ecosystems are far-reaching and burning issues in the wake of high growth of population, low production and per ha yield of crops and depletion of biodiversity resources. Mountainous regions of the world are facing the menace of poverty, food insecurity and malnutrition. Further, tremendous growth in population and slow pace of development have together forced most of the population to live below poverty line. Traditionally depending upon cultivating subsistence crops for food requirement, the people living in mountainous region are unable to produce sufficient food grains to run their livelihood smoothly. The Himalayas is one of the world’s biodiversity [...] 

Features
Sustainable livelihoods and ecosystems are far-reaching and burning issues in the wake of high growth of population, low production and per ha yield of crops and depletion of biodiversity resources. Mountainous regions of the world are facing the menace of poverty, food insecurity and malnutrition. Further, tremendous growth in population and slow pace of development have together forced most of the population [...] 

Contents

Fields of interest
Environmental Science and Engineering; Regional and Cultural Studies; Sustainable Development

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-319-03532-1

Hardcover
2014, XVI, 201 p. 54 illus., 41 illus. in color. (Environmental Science) ISBN 978-3-319-03532-1

Due: January 31, 2014

V.P. Sati, Mizoram University, Aizawl, India

Trap Magmatism and Ore Formation in the Siberian Noril’sk Region

Volume 1. Trap Petrology

The basis of this investigation is the petrographic and geochemical understanding of principal igneous rock types of the Noril’sk region, in order to demonstrate that these data provide unique and self-evident solutions to the problems of petrogenesis and mineralization. The results of the investigations are presented in two volumes: the first includes mainly text and the second contains illustrations. In the first volume, the state of the main problems of the genesis of igneous rocks with reference to Traps and related ore deposits is discussed, as well as short petrological descriptions of igneous complexes in the region, the mineral and geochemical diversity of the rocks, and [...] 

Features
The basis of this investigation is the petrographic and geochemical understanding of principal igneous rock types of the Noril’sk region, in order to demonstrate that these data provide unique and self-evident solutions to the problems of petrogenesis and mineralization. The results of the investigations are presented in two volumes: the first includes mainly text and the second contains [...] 

Contents
Volume 1: Trap Petrology. - Principal issues surrounding the trap magmatism of the Siberian Platform. - Effusive and explosive complexes in the Norilsk region. - Intrusive complexes of the Norilsk region. - Mineralogy and geochemistry of traps. - Basalt magma differentiation as a source of variety in traps. - Conclusion.

Fields of interest
Geology; Mineral Resources; Mineralogy; Geochemistry

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-84-007-5021-0

Hardcover

Due: April 28, 2014

J. Rabassa, CADIC-CONICET, Ushuaia, Argentina; C. Oller, University of Western Australia, Nedlands, Australia (Eds.)
Community Practices for Disaster Risk Reduction in Japan

This book presents key lessons from community-based risk-reduction practices in Japan, a country that is often hit by disasters and that also has shown strong resilience in coping with those disasters. Japan has a strong governance system for disaster risk reduction. However, the Kobe earthquake of 1995 showed the importance of community involvement in disaster response as well as recovery. With several examples from different parts of Japan, the book elaborates on the importance of community-based risk reduction and the innovations required for sustaining some of the community approaches. The book has 13 chapters and is divided into three parts: (1) Evolution of community-based risk reduction. [...] Features This book presents key lessons from community-based risk-reduction practices in Japan, a country that is often hit by disasters and that also has shown strong resilience in coping with those disasters. Japan has a strong governance system for disaster risk reduction. However, the Kobe earthquake of 1995 showed the importance of community involvement in disaster response as well as recovery. With several [...] Contents Disaster Risk Reduction and Community Approaches. Kobe Earthquake: Turning Point of Community-based Risk Reduction in Japan. Typhoon, Flood, and Landslide Related Disasters in Japan: Role of Communities. Social Capital in Disaster Recovery in Japan: An Overview. Concepts and Approaches of School-centered Disaster Resilient Communities. Building Disaster Resilient Community through Healthcare Networking. Roles of Community Radio in Disaster Management: Reflections from Japan. Community Development and Disaster Preparedness in a Depopulated Society: Case of Tosashimizu City, Kochi. [...] Fields of interest Natural Hazards; Sustainable Development Target groups Graduate Type of publication Monograph More on www.springer.com/978-3-642-45154-6 Hardcover 2014. X, 236 p. 57 illus., 38 illus. in color. (Disaster Risk Reduction) ISBN 978-4-431-54245-2 Due: January 31, 2014

Stone in Architecture

Properties, Durability

The weathering of historical buildings and, indeed, of monuments and sculptures of natural stone is a problem that has been encountered for hundreds of years. However, a dramatic increase in deterioration in the structure of our built heritage has been observed during the past century. To understand the complex interaction that the stone in a building suffers with its near environment (the building) and the macro environment (the local climate and atmospheric conditions) requires an interdisciplinary approach and the application of many disciplines. Climate change over the next 100 years is likely to have a range of direct and indirect impacts on many natural and physical environments. [...] Features The weathering of historical buildings and, indeed, of monuments and sculptures of natural stone is a problem that has been encountered for hundreds of years. However, a dramatic increase in deterioration in the structure of our built heritage has been observed during the past century. To understand the complex interaction that the stone in a building suffers with its near environment (the building) and the [...] Contents Building Stones. Physical and Mechanical Properties of Rocks. Weathering and Deterioration. Environmental and Architectural Stone. Characterisation of Stone Deterioration on Buildings. Stone Conservation. Fields of interest Structural Geology; Geotechnical Engineering & Applied Earth Sciences; Building Materials Target groups Research Type of publication Monograph More on www.springer.com/978-3-642-45154-6 Hardcover 2014. 580 p. 490 illus., 360 illus. in color. ISBN 978-3-642-45154-6 Due: February 17, 2014

Typhoon Impact and Crisis Management

Dynamic Response and Deformation Characteristic of Saturated Soft Clay under Subway Vehicle Loading

Involving several areas of geological engineering, geotechnical engineering and tunnel engineering, this book describes the soft soil deformation characteristics and dynamic responses induced by subway vibration loads. Based on field monitoring and laboratory testing data, with both comprehensive micro- and macroanalysis, the authors present dynamic characteristics and deformation settlement of saturated soft clay surrounding subway tunnels using dynamic and static methodology. Mechanism of deformation, failure in microstructure of soft clay soil, dynamic response, macro deformation and settlement are all discussed and analyzed thoroughly and systematically. Some of the research results can be applied in practice.

Features
- Involving several areas of geological engineering, geotechnical engineering and tunnel engineering, this book describes the soft soil deformation characteristics and dynamic responses induced by subway vibration load.
- Based on field monitoring and laboratory testing data, with both comprehensive micro- and macroanalysis, the authors present dynamic characteristics and deformation settlement of saturated soft clay.

Contents
- Introduction
- Field test
- Laboratory testing
- Microstructure of soil
- Theoretical analysis and numerical simulation
- Settlement predictions for soil around subway tunnels

Fields of interest
- Geotechnical Engineering & Applied Earth Sciences
- Civil Engineering: Transportation

Target groups
- Research

Type of publication
- Monograph

More on www.springer.com/978-3-642-41986-7

Mathematical Analysis of Environmental System

This book is for all graduate students who are specializing in any environmental issue and who wish to grasp the fundamentals of physics that are required in various fields of science and engineering. The book provides the structural concept of the system state equation and its dynamics, which can be applicable to numerical solutions in several important areas such as heat and mass transfer and fluid dynamics. As a first step, there is a description of how to solve a linear system by conducting an analysis of temperature distribution in an infinite soil as a practical example. This exercise helps readers to fully understand what time and space discretizations are, and how actual...[–]

Features
- This book is for all graduate students who are specializing in any environmental issue and who wish to grasp the fundamentals of physics that are required in various fields of science and engineering.
- The book provides the structural concept of the system state equation and its dynamics, which can be applicable to numerical solutions in several important areas such as heat and mass transfer and fluid dynamics.

Contents
- Environmental Systems and Analysis Methods
- Linear Systems Analysis Methods
- Applications of Vector Matrix Operations
- Dynamics of Non-Linear Systems

Fields of interest
- Earth System Sciences: Environmental Physics
- Renewable and Green Energy

Target groups
- Graduate

Type of publication
- Monograph

More on www.springer.com/978-4-431-54621-4

Softcover
- 2014 X, 128 p. 94 illus., 84 illus. in color.
- ISBN 978-4-431-54621-4
- Due: January 31, 2014

Flexible Global Ocean-Atmosphere-Land System Model

A Modeling Tool for the Climate Change Research Community

Coupled climate system models are of central importance for climate studies. A new model known as FGOALS (the Flexible Global Ocean-Atmosphere-Land System model), has been developed by the State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics, Institute of Atmospheric Physics, Chinese Academy of Sciences (LASG/IAP, CAS), a first-tier national geophysical laboratory. It serves as a powerful tool, both for deepening our understanding of fundamental mechanisms of the climate system and for making decadal prediction and scenario projections of future climate change.

Features
- Coupled climate system models are of central importance for climate studies. A new model known as FGOALS (the Flexible Global Ocean-Atmosphere-Land System model), has been developed by the State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics, Institute of Atmospheric Physics, Chinese Academy of Sciences (LASG/IAP, CAS), a first-tier national geophysical...

Contents

Fields of interest
- Earth System Sciences: Meteorology, Climatology, Geophysics and Environmental Physics: Climate Change

Target groups
- Research

Type of publication
- Monograph

More on www.springer.com/978-3-642-41800-6

Hardcover
- 2014, XVI, 483 p. 176 illus., 152 illus. in color.
- ISBN 978-3-642-41800-6
- Usually dispatched within 3 to 5 business days
Soil Science

The soils are fundamental to our existence, delivering water and nutrients to plants, that feed us. But they are in many ways in danger and their conservation is therefore a most important focus for science, governments and society as a whole. A team of world recognised researchers have prepared this first English edition based on the 16th European edition.

- The physical, biological and chemical properties of soils
- Nutrients and Pollutants
- The various soil classifications with the main focus on the World Reference Base for Soil Resources (WRB)
- The most important soils and soil landscapes of the world
- Soil Evaluation

Features

- The soils are fundamental to our existence, delivering water and nutrients to plants, that feed us. But they are in many ways in danger and their conservation is therefore a most important focus for science, governments and society as a whole. A team of world recognised researchers have prepared this first English edition based on the 16th European edition.

Fields of interest

- Soil Science & Conservation; Geochemistry; Physical Geography

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-642-30941-0

Hardcover


Due: February 28, 2014

Mathematical Models and Methods for Planet Earth

In 2013 several scientific activities have been devoted to mathematical researches for the study of planet Earth. The current volume presents a selection of the highly topical issues presented at the workshop "Mathematical Models and Methods for Planet Earth", held in Roma (Italy), in May 2013. The fields of interest span from impacts of dangerous asteroids to the safeguard from space debris, from climatic changes to monitoring geological events, from the study of tumor growth to sociological problems. In all these fields the mathematical studies play a relevant role as a tool for the analysis of specific topics and as an ingredient of multidisciplinary problems. To investigate these...

Features

In 2013 several scientific activities have been devoted to mathematical researches for the study of planet Earth. The current volume presents a selection of the highly topical issues presented at the workshop "Mathematical Models and Methods for Planet Earth", held in Roma (Italy), in May 2013. The fields of interest span from impacts of dangerous asteroids to the safeguard from space debris, from climatic changes to monitoring geological events, from the study of tumor growth to sociological problems. In all these fields the mathematical studies play a relevant role as a tool for the analysis of specific topics and as an ingredient of multidisciplinary problems. To investigate these...

Contents


Fields of interest

- Math. Appl. in Environmental Science; Earth Sciences (general); Climate Change Impacts; Climate (general); Mathematical Methods in Physics

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-319-02656-5

Hardcover


Due: January 31, 2014

Water Resources Research in Northwest China

This book examines the possible impacts of climate change on hydrology and water resources in the arid region of Northwest China, which is one of the world's largest arid places. The first chapter offers an introductory discussion of the physical geography and socioeconomic conditions in the region. Part two discusses climate system and hydrologic system changes and implications of these changes in relation to potential evapotranspiration, the hydrological cycle and the spatiotemporal variations of the snow cover and glaciers through remote sensing, geographic information systems and statistical analysis. The third part of the book focuses on the model description and experimental[...]

Features

This book examines the possible impacts of climate change on hydrology and water resources in the arid region of Northwest China, which is one of the world's largest arid places. The first chapter offers an introductory discussion of the physical geography and socioeconomic conditions in the region. Part two discusses climate system and hydrologic system changes and implications of these changes in relation[...]

Contents

1 Exordium. - 2 Climate System in Northwest China. - 3 Hydrologic system in Northwest China.- 4 Response of Run-off to Climate Change. - 5 Glaciers change and its impact on water resources. - 6 Spatial-temporal Variation of Snow Cover from Space in Northern Xinjiang. - 7 Change of potential evaporation and its implications to water cycle. - 8 The nonlinear hydro-climatic process: a case study of the Tanim headwaters, NW China.- 9 Climate change scenarios and the impact on runoff. - 10 Changes in extreme hydrological events. - 11 Water resources management. - Index.

Fields of interest

- Sustainable Development; Hydrology / Water Resources; Physical Geography; Meteorology; Climatology; Environmental Science and Engineering

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8016-2

Hardcover


Due: February 28, 2014
Management of Water Quality in Moldova

This book deals with water management, one of the most challenging issues of contemporary society. Research and innovation in the field of water management must address certain fundamental aspects: access to water, water quality, water treatment, transboundary effect of water, etc. A comprehensive analysis was performed in a national research program of Moldova, entitled “Research and management of water quality”. The main goal of the research program was to create and improve the legal, scientific and methodological, technological basis and sustainable development of water, implementation of modern technologies in water supply, treatment and reuse. Other priorities include expansion...[...]

Features

This book deals with water management, one of the most challenging issues of contemporary society. Research and innovation in the field of water management must address certain fundamental aspects: access to water, water quality, water treatment, transboundary effect of water, etc. A comprehensive analysis was performed in a national research program of Moldova, entitled “Research and management of water...[...]

Contents


Fields of interest

Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution / Water Policy / Water Governance / Water Management; Water Quality / Water Pollution; Geophysics and Environmental Physics; Landscape, Regional and Urban Planning; Water Industry/Water Technologies

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-319-02707-4

Hardcover

2014; VIII, 204 p. 151 illus., 67 illus. in color. (Water Science and Technology Library, Vol. 69)

ISBN 978-3-319-02707-4

Due: December 31, 2013

Application of Threshold Concepts in Natural Resource Decision Making

Natural resource managers face a complex decision-making environment characterized by the potential occurrence of rapid and abrupt ecological change. These abrupt changes are poorly accommodated by traditional natural resource planning and decision-making processes. As recognition of threshold processes has increased, contemporary models of ecological systems have been modified to better represent a broader range of ecological system dynamics. Key conceptual advances associated with the ideas of non-linear responses, the existence of multiple ecological stable states and critical thresholds are more likely the rule than the exception in ecological systems. Even an ecological threshold...[...]

Features

Scientists and managers have largely abandoned classic models that assume natural systems are in equilibrium and recognize the importance of understanding interactions between, and among, biotic and abiotic factors in ecosystems, and how these interactions lead to complexities that should be factored into natural resource management decisions. Even though the existence of ecological thresholds is becoming...[...]

Contents


Fields of interest

Environmental Management; Applied Ecology; Monitoring / Environmental Analysis

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4899-8040-3

Hardcover


Due: February 28, 2014

Approaches to Study Living Foraminifera

Collection, Maintenance and Experimentation

Foraminiferal cultures now serve as tools for researching biological, environmental, and geological topics. However, the biological backgrounds, in particular the natural histories of foraminifera, largely remain unclear. It is also true that the different techniques used in different cultures are a setback to fully understanding the subject. Taken together, these factors prevent progress in experimental approaches to foraminiferal studies. This book aims to share and exchange knowledge between researchers from different cultures, and the book should interest not only foraminiferal researchers but also scientists who are working with marine organisms to explore questions in relation...[...]

Features

Foraminiferal cultures now serve as tools for researching biological, environmental, and geological topics. However, the biological backgrounds, in particular the natural histories of foraminifera, largely remain unclear. It is also true that the different techniques used in different cultures are a setback to fully understanding the subject. Taken together, these factors prevent progress in experimental...[...]

Contents


Fields of interest

Monitoring / Environmental Analysis, Biogeosciences; Freshwater & Marine Ecology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-4-431-54387-9

Hardcover

2014; XV, 183 p. 79 illus., 44 illus. in color. (Environmental Science) ISBN 978-4-431-54387-9

Due: January 31, 2014
Beyond the Limits to Growth

New Ideas for Sustainability from Japan

At a time when contemporary challenges seem to many to be insurmountable, this book offers an optimist view of the future and provides a road map for societies to get there. Drawing upon extensive research and many years as a thought leader in environmental and sustainability issues in Japan and internationally, Hiroshi Komiyama analyzes the most pressing challenges to the attainment of sustainability of economically advanced nations and argues forcefully for Japan to lead them out of the present dilemma through active promotion of creative consumer and societal demand. He shows how an active industry-government-academic partnership can provide the environment needed to promote such[...]

Contents
1 "Diffusive Demand" and "Creative Demand". 2 The 21st Century Paradigm and the Role of Information Technology. 3 "Vision 2050" as the Rescue of a "Limited Earth". 4 Finding a Way Out Through Creative Demand, I. 5 Finding a Way Out Through Creative Demand, II. 6 Toward the Realization of a "Platinum Society".

Fields of interest
Sustainable Development; Energy Policy; Economics and Management; Energy Efficiency (incl. Buildings); Climate Change Management and Policy; Renewable and Green Energy; Environmental Engineering / Biotechnology

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-4-431-54558-3

Hardcover
2014, XIX, 103 p. 30 illus., 25 illus. in color. (Science for Sustainable Societies)
ISBN 978-4-431-54558-3
Due: December 31, 2013

Ecological Energy Accounting for a Limited System

General Principles and a Case Study of Macao

This book builds on the analyses of Eugene and Howard Odum and introduces the concept of systems ecology. Ecological energy accounting represents a breakthrough because it allows researchers to integrate man-made capital and natural capital so that human and natural concerns can be addressed using a consistent system of units. This book develops an energy accounting model that is suitable for describing urban systems, thereby providing a comprehensive picture of those systems. To make the theory concrete, the authors use China’s Macao Special Administrative Region as a case study, and compare the results for Macao with those of other urban ecosystems around the world in the fields of[...]

Contents

Fields of interest
Environmental Management; Energy Policy; Economics and Management; Energy Economics

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-45169-0

Pollutant Diseases, Remediation and Recycling

Pollution has no borders. This popular 70’s saying from early ecologists is surprisingly still true nowadays despite overwhelming scientific evidence and public awareness of the occurrence of artificial toxic substances in water, food, air, living organisms and the environment. This book presents advanced reviews on pollutant occurrence, transfer, toxicity and remediation. The chapter on school air quality by Dambruoso et al. highlights the overlooked health issue of airborne pollutants in buildings. Children are particularly threatened because they spend 90% of their time indoors, even in summer. The chapter on industrial wastewater pollutants by Dskiwitzky and Schwarzrauber reviews[...]

Contents

Fields of interest
Environmental Chemistry; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Ecotoxicology; Atmospheric Protection / Air Quality Control / Air Pollution; Neurochemistry

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-319-02386-1

Hardcover
2013, XIV, 556 p. 110 illus., 72 illus. in color. (Environmental Chemistry for a Sustainable World, Vol. 4)
ISBN 978-3-319-02386-1
Due: January 31, 2014
Environmental Deterioration and Human Health

Natural and anthropogenic determinants

This book discusses the natural and anthropogenic determinants of the environment and their impact on human health. It throws light on the perspectives of climate change with case studies from Australia, India, Italy, and Latin America. Themes covered are ecology of antibiotic resistant microorganisms, pesticide and heavy metal (arsenic) problems in natural environment; molecular advances in understanding of microbial interactions; ecological studies of human/animal health and diseases; food security, technological developments and more. The various chapters incorporate both theoretical and applied aspects and may serve as baseline information for future research through which [...] Features

This book discusses the natural and anthropogenic determinants of the environment and their impact on human health. It throws light on the perspectives of climate change with case studies from Australia, India, Italy, and Latin America. Themes covered are ecology of antibiotic resistant microorganisms, pesticide and heavy metal (arsenic) problems in natural environment; molecular advances in [...] Contents


Fields of interest

Environmental Health; Agriculture; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7889-4

Hardcover

2014. XV, 421 p. 45 illus., 35 illus. in color. ISBN 978-94-007-7889-4

Due: December 31, 2013

Managing Protected Areas in Central and Eastern Europe Under Climate Change

Beginning with an overview of data and concepts developed in the EU-project HABIT-CHANGE, this book addresses the need for sharing knowledge and experience in the field of biodiversity conservation and climate change. There is an urgent need to build capacity in protected areas to monitor, assess, manage and report the effects of climate change and their interaction with other pressures. The contributors identify barriers to the adaptation of conservation management, such as the mismatch between planning reality and the decision context at site level. Short and vivid descriptions of case studies, drawn from investigation areas all over Central and Eastern Europe, illustrate both the [...] Features

Beginning with an overview of data and concepts developed in the EU-project HABIT-CHANGE, this book addresses the need for sharing knowledge and experience in the field of biodiversity conservation and climate change. There is an urgent need to build capacity in protected areas to monitor, assess, manage and report the effects of climate change and their interaction with other pressures. The contributors [...] Contents


Climate Change; Nature Conservation; Fish & Wildlife Biology & Management; Landscape, Regional and Urban Planning; Applied Ecology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7959-4

Hardcover

2014. XIV, 310 p. 75 illus., 37 illus. in color. ISBN 978-94-007-7959-4

Due: January 31, 2013

Socio-Economic Impacts of Bioenergy Production

Around the world, many countries are increasing efforts to promote biomass production for industrial uses including biofuels and bio-products such as chemicals and bio-plastic. Against a backdrop of lively public debate on sustainability, bioenergy wields both positive and negative impacts upon a variety of environmental and socio-economic issues. These include property rights, labor conditions, social welfare, economic wealth, poverty reduction and more. This book discusses the issues and impacts of bioenergy, taking into account the local and regional framework under which bioenergy is produced, touching upon educational level, cultural aspects, the history and economies of the [...] Features

Around the world, many countries are increasing efforts to promote biomass production for industrial uses including biofuels and bio-products such as chemicals and bio-plastic. Against a backdrop of lively public debate on sustainability, bioenergy wields both positive and negative impacts upon a variety of environmental and socio-economic issues. These include property rights, labor conditions, social [...] Contents


Sustainable Development; Renewable and Green Energy; Social Sciences (general); Environment (general)

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-319-03828-5

Hardcover


Due: February 28, 2014
Modelling Potential Malaria Spread in Germany by Use of Climate Change Projections

A Risk Assessment Approach Coupling Epidemiologic and Geostatistical Measures

This book investigates the spatial distribution of potential temperature-driven malaria transmissions, using the basic reproduction rate (R0) to model the reproduction of the malaria pathogen Plasmodium vivax. The authors mapped areas at risk of an outbreak of tertian malaria in the federal state of Lower Saxony (pre-study) and for whole Germany (main-study) by means of geostatistics for past (1947-2007) and future periods. Projections based on predicted monthly mean air temperature data derived from the IPCC and regionally discriminated by two regional climate models (REMO, WettReg) for the country-wide study.

Features
One of the most troubling and dangerous effects of climate warming is the potential for new outbreaks of vector-borne diseases – in humans as well as livestock – that had previously been eradicated, or at least effectively suppressed. One such threat is malaria. Although it is often believed to be restricted to the tropics and developing countries, climate change could bring malaria back to Europe, [...]

Contents

Fields of interest
Climate Change; Climate Change Impacts; Parasitology; Epidemiology; Biogeosciences

Target groups
Graduate

Type of publication
Brief

More on www.springer.com/978-3-319-03822-3

Softcover
2014, XIV, 57 p. 18 illus., 15 illus. in color. (SpringerBriefs in Environmental Science)
ISBN 978-3-319-03822-3
Due: January 31, 2014

Greening Frankenstein
Innovation for Sustainability

This book aims to publish a new message and novel ideas into the literature that links design, technology and sustainability. We are aiming, through research and critical exposition, to articulate new conceptual tools to describe and critique the made world. The book targets policy, professional and academic audiences concerned with sustainability culture and practice. Through practical illustrations and our body of research we will offer alternative narratives for how we ought think about the meanings of the labels we use to define the made world (our frankenstein) and how our ‘frankenstein’ is systemically part of us and part of ecology by design and by nature. We will reveal to the[...]

Features
This book aims to publish a new message and novel ideas into the literature that links design, technology and sustainability. We are aiming, through research and critical exposition, to articulate new conceptual tools to describe and critique the made world. The book targets policy, professional and academic audiences concerned with sustainability culture and practice. Through practical illustrations and our[...]

Contents

Fields of interest
Environmental Law / Policy / Ecojustice; Interdisciplinary Studies; Technology Management; Epistemology; Professional and Vocational Education; Human Geography

Target groups
Graduate

Type of publication
Monograph

More on www.springer.com/978-94-007-2012-1

Hardcover
2014. 256p. 25 illus., 5 illus. in color. ISBN 978-94-007-2012-1
Due: February 28, 2014

Marine Renewable Energy Technology and Environmental Interactions

It is now widely recognized that there is a need for long-term secure and sustainable forms of energy. Renewable energy from the marine environment, in particular renewable energy from tidal currents, wave and wind, can help achieve a sustainable energy future. Our understanding of environmental impacts and suitable mitigation methods associated with extracting renewable energy from the marine environment is improving all the time and it is essential that we be able to distinguish between natural and anthropocentric drivers and impacts. An overview of current understanding of the environmental implications of marine renewable energy technology is provided.

Features
It is now widely recognized that there is a need for long-term secure and sustainable forms of energy. Renewable energy from the marine environment, in particular renewable energy from tidal currents, wave and wind, can help achieve a sustainable energy future. Our understanding of environmental impacts and suitable mitigation methods associated with extracting renewable energy from the marine[...]

Contents

Fields of interest
Marine & Freshwater Sciences; Renewable and Green Energy; Freshwater & Marine Ecology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-017-8001-8

Hardcover
2014, I, 418 p. 38 illus., 9 illus. in color. (Humanity and the Sea)
ISBN 978-94-017-8001-8
Due: January 31, 2014
Nitrogen Deposition, Critical Loads and Biodiversity

This volume brings together extended reviews and papers of new scientific research on atmospheric nitrogen deposition impacts globally. While there is a wealth of evidence on the magnitude, components and effects of nitrogen deposition on natural biodiversity in Europe and North America, there is an obvious lack of information on impacts on above- and below-ground fauna, and all impacts in other parts of the world, with no clear overview of how the different strands of evidence fit together. This overall synthesis is targeted at the international conventions, but is equally readable for scientists, environmental managers, conservation agencies and policy makers. This timely book [...] Features

This volume brings together extended reviews and papers of new scientific research on atmospheric nitrogen deposition impacts globally. While there is a wealth of evidence on the magnitude, components and effects of nitrogen deposition on natural biodiversity in Europe and North America, there is an obvious lack of information on impacts on above- and below-ground fauna, and all impacts in other parts of the [...] Contents

Part I. Monitoring and modelling atmospheric nitrogen deposition.- Part II. Nitrogen impacts on terrestrial and aquatic ecosystems.- Part III. Critical loads and levels approaches and regional upscaling.- Part IV. Nitrogen deposition, ecosystem services and policy development.- Part V. Conclusions and outlook.

Fields of interest

Atmospheric Protection / Air Quality Control / Air Pollution; Terrestrial Pollution; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Environmental Management

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-7938-9

Hardcover

2014, I, 539 p. 177 illus., 82 illus. in color. ISBN 978-94-007-7938-9

Due: January 31, 2014

S. Takahashi, Kyoto University, Sennan-gun, Japan (Ed.)

Radiation Monitoring and Dose Estimation of the Fukushima Nuclear Accident

This book provides comprehensive research findings related to the environmental monitoring of radiation, levels of radioactive nuclides in various environments and dose estimation in residents after the Fukushima nuclear power plant accident caused severe environmental contamination with radioactive nuclides. At the beginning of the book, a technical review written by a leading researcher of nuclear reactor technology explains what happened at the power plant. The review is followed by a commentary from a former member of the International Commission on Radiological Protection, providing the reader with easily understandable information about the concept of radiation dosage. In the [...] Features

This book provides comprehensive research findings related to the environmental monitoring of radiation, levels of radioactive nuclides in various environments, and dose estimation in residents after the Fukushima nuclear power plant accident caused severe environmental contamination with radioactive nuclides. At the beginning of the book, a technical review written by a leading researcher of nuclear [...] Contents

Part I Introduction.- 1 Outline of the Environmental Monitoring of TEPCO’s Fukushima Daiichi Nuclear Power Plant Accident (Tomoyuki TAKAHASHI).- 2 Outline of the Radiation Dose Estimation of Residents After the Fukushima Daiichi Nuclear Power Plant Accident (Sentaro TAKAHASHI).- Part 2 Overview.- 3 Accident of Fukushima Daiichi Nuclear Power Plant: Sequences, FP Released, Lessons Learned (Jun SUGIMOTO).- 4 Some Comments on Dose Assessment for Members of the Public After the Fukushima Daiichi Nuclear Power Plant Accident (Jiro INABA).- Part 3 Radiation Survey of the Environment.- 5 [...] Fields of interest

Effects of Radiation / Radiation Protection; Environmental Health; Nuclear Energy; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Nuclear Chemistry

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-4-431-54582-8

Hardcover

2014, X, 219 p. 79 illus., 45 illus. in color. ISBN 978-4-431-54582-8

Due: January 31, 2014

J. Urquhart, The School of Science, Chatham, United Kingdom; T.G. Acott, University of Greenwich, Chatham, United Kingdom; D. Symes, University of Hull, Hull, United Kingdom; M. Zhao, Greenwich Maritime Institute Office, London, United Kingdom (Eds.)

Social Issues in Sustainable Fisheries Management

This volume is an interdisciplinary mix of perspectives and studies on social issues in fisheries from a diverse range of case studies and research disciplines. The case is made regarding the dearth of attention to socio-cultural considerations which to date have been largely treated as an externality of fisheries policy. It will be valuable to researchers and decision makers interested in understanding the social dimension of fisheries and provides a timely and relevant compilation of research and analysis on some of the critical socio-cultural issues facing fisheries management and fishing communities today.

Features

This volume is an interdisciplinary mix of perspectives and studies on social issues in fisheries from a diverse range of case studies and research disciplines. The case is made regarding the dearth of attention to socio-cultural considerations which to date have been largely treated as an externality of fisheries policy. It will be valuable to researchers and decision makers interested in understanding the [...] Contents


Fields of interest

Sustainable Development; Human Geography; Fish & Wildlife Biology & Management

Target groups

Research

Type of publication

Contributed volume


Hardcover


Due: January 31, 2014

T.G. Acott, University of Greenwich, Chatham, United Kingdom; J. Urquhart, The School of Science, Chatham, United Kingdom; M. Zhao, Greenwich Maritime Institute Office, London, United Kingdom; D. Symes, University of Hull, Hull, United Kingdom; K.E. Mason, Centre for Ecology and Hydrology, Penicuik, United Kingdom; A. Groombridge, Centre for Ecology and Hydrology, Penicuik, United Kingdom; R. Hauler, World Wildlife Fund, United Kingdom; D. Symes, University of Hull, Hull, United Kingdom; M. Zhao, Greenwich Maritime Institute Office, London, United Kingdom (Eds.)

M.A. Sutton, Centre for Ecology and Hydrology, Penicuik, United Kingdom; K.E. Mason, Centre for Ecology and Hydrology, Penicuik, United Kingdom; L. Sheppard, Centre for Ecology and Hydrology, Penicuik, United Kingdom; H. Svedrup, University of Lund, Lund, Sweden; R. Haebler, US Environmental Protection Agency, Washington, USA; W.X. Hicks, University of York, Heslington, York, United Kingdom (Eds.)
Inland Water Altimetry

This book will bring an integrated view of the state-of-the-art in the matter to the water scientists eager to add Radar Altimetry to their toolkit. It describes experience in application of satellite altimetry to the different inland seas, lakes and rivers in the World. It presents the principal problems related to the altimetry derived products in inland seas, lakes and rivers and ways of their improvement. This publication is based on numerous satellite and observational data collected and analyzed by the authors of the various chapters in the framework of a set of international projects, performed in Europe, Russia, USA, and China. The book will contribute both to the ongoing...

Features
This book will bring an integrated view of the state-of-the-art in the matter to the water scientists eager to add Radar Altimetry to their toolkit. It describes experience in application of satellite altimetry to the different inland seas, lakes and rivers in the World. It presents the principal problems related to the altimetry derived products in inland seas, lakes and rivers and ways of their improvement. [...]

Contents

Fields of interest
Remote Sensing / Photogrammetry; Hydrology / Water Resources

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-22678-6

Hardcover
2014. 500 p. 100 illus.

Due: March 28, 2014

Urbanisation, unlimited

A Thematic Journey

The book consists of a series of essays covering themes which are relevant to the process of urbanisation worldwide – such as dispersion, privatisation or vitality. With reference to each of the 15 themes, specific instances are displayed with one photo each and a description of anecdotal character. The instances are taken from Europe, the Middle East, Brazil, South Africa and the United States. The tone of the text is analytical, based on a post-voluntarist attitude, critical to both neoliberal policies and determinist planning traditions.

Features
The book consists of a series of essays covering themes which are relevant to the process of urbanisation worldwide – such as dispersion, privatisation or vitality. With reference to each of the 15 themes, specific instances are displayed with one photo each and a description of anecdotal character. The instances are taken from Europe, the Middle East, Brazil, South Africa and the United States. The tone of [...]

Contents

Fields of interest
Landscape, Regional and Urban Planning; Cities, Countries, Regions; Urbanism

Target groups
Graduate

Type of publication
Monograph

More on www.springer.com/978-3-319-03586-4

Hardcover
2014. 190 p. 75 illus.

Due: March 15, 2014
Creative Industry Districts
An Analysis of Dynamics, Networks and Implications on Creative Clusters in Shanghai

Since the late 1990s, there have been broad discussions concerning the rapid rise of the creative economy. Creative or cultural industry is seen as the new engine of the regional growth for both developed economies and emerging nations. At the point of transition in economy and society, China is recently striving to transform its economy from "made in China" towards "created in China". This book provides an insight into creative industries and spaces in Shanghai, which is the fastest growing megacity in China and the center of modern economic development on a global scale. Underpinned by new approaches from economic geography and urban studies, it deals with the new relations between...[...]

Features
This book provides insight into creative industries and spaces in Shanghai, which is the fastest growing megacity in China and center of modern economic development on a global scale. Underpinned by new approaches from economic geography and urban studies, it deals with the new relations between the creative economy and urban environment in Shanghai. At the point of transition in economy and society, China...[...]

Contents
Introduction - Characterizing Shanghai's Creative Industries and Districts - Dynamics in Clustering of Creative Industries in Shanghai - Network Analysis of Creative Clusters in Shanghai - Impacts of Creative Industry Districts in Shanghai - Discussion and Conclusions.

Fields of interest
Economic Geography; Regional Science; Landscape, Regional and Urban Planning

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-319-01975-8

Hardcover
2014. XIII, 197 p. 75 illus., 50 illus. in color. (Advances in Human-Environmental Research) ISBN 978-3-319-01975-8
usually dispatched within 3 to 5 business days

---

Modeling of Land-Use and Ecological Dynamics

As cities are rapidly expanding and encroaching into agricultural and natural areas, a question of primary concern is how this expansion affects surrounding agriculture and natural landscapes. This book presents a wide spectrum of both theoretical and empirical approaches to simulation and assessment of landscape dynamics. The first part presents state-of-the-art modelling approaches pertaining to land-use changes entailed by the urban sprawl, at different spatial resolutions and temporal time scales. The second part is dedicated to case studies of the effects and consequences of the emerging urban-agriculture open space patterns.

Features
As cities are rapidly expanding and encroaching into agricultural and natural areas, a question of primary concern is how this expansion affects surrounding agriculture and natural landscapes. This book presents a wide spectrum of both theoretical and empirical approaches to simulation and assessment of landscape dynamics. The first part presents state-of-the-art modelling approaches pertaining to land-use...[...]

Contents

Fields of interest
Landscape, Regional and Urban Planning; Regional Science; Nature Conservation; Simulation and Modelling; Ecosystems

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-40198-5

Hardcover
Due: December 31, 2013

---

The Geography of Beer
Regions, Environment, and Societies

This edited collection examines the various influences, relationships, and developments beer has had from distinctly spatial perspectives. The chapters explore the functions of beer and brewing from unique and sometimes overlapping historical, economic, cultural, environmental and physical viewpoints. Topics from authors – both geographers and non-geographers alike – have examined the influence of beer throughout history, the migration of beer on local to global scales, the dichotomous nature of global production and craft brewing, the neolocalism of craft beers, and the influence local geography has had on beer's most essential ingredients: water, starch (malt), hops, and yeast. At the...[...]

Features
From its roots in early civilizations to its modern role in globalization, the role of beer through time and space have influenced the culture, economics, and environments of what society has grown, produced, and consumed. This edited collection examines the various influences, relationships, and developments beer has had from distinctly spatial perspectives. The chapters explore the functions of beer...[...]

Contents

Fields of interest
Economic Geography; Physical Geography; Human Geography; Regional and Cultural Studies; Food Science

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-94-007-7786-6

Hardcover
2014. X, 200 p. 70 illus., 50 illus. in color. ISBN 978-94-007-7786-6
Due: March 28, 2014
Complex Terrain Mapping
Integrated Use of Stereo Air Photos and Satellite Images

A review of five major categories of morphogenetic terrain types meet the complex terrain criteria: landslides, field photos of slope failures, bedrocks, nonglacial surficial deposits, glacial and alpine-glacial, and periglacial. Interpretations are based on personal knowledge and available background materials. This monograph documents a concept of complex terrains with the use of 208 illustrations, including 64 analyzed and extensively commented examples of stereo-pair air photos and 64 related satellite images.

Features
A review of five major categories of morphogenetic terrain types meet the complex terrain criteria: landslides, field photos of slope failures, bedrocks, nonglacial surficial deposits, glacial and alpine-glacial, and periglacial. Interpretations are based on personal knowledge and available background materials. This monograph documents a concept of complex terrains with the use of 208 illustrations, including [...]
Flow Sensing in Air and Water
Behavioral, Neural and Engineering Principles of Operation

In this book, leading scientists in the fields of sensory biology, neuroscience, physics and engineering explore the basic operational principles and behavioral uses of flow sensing in animals and how they might be applied to engineering applications such as autonomous control of underwater or aerial vehicles. Although humans possess no flow-sensing abilities, countless aquatic (e.g. fish, cephalopods and seals), terrestrial (e.g. crickets and spiders) and aerial (e.g. bats) animals have flow-sensing abilities that underlie remarkable behavioral feats. These include the ability to follow silent hydrodynamic trails long after the trailblazer has left the scene, to form hydrodynamic...[...]

Features
In this book, leading scientists in the fields of sensory biology, neuroscience, physics and engineering explore the basic operational principles and behavioral uses of flow sensing in animals and how they might be applied to engineering applications such as autonomous control of underwater or aerial vehicles. Although humans possess no flow-sensing abilities, countless aquatic (e.g. fish, [...]

Contents
Part I: Spatio-Temporal Structure of Natural Aerial and Hydrodynamic Stimuli

Fields of interest
Neurobiology; Biophysics and Biological Physics; Zoology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-41445-9

Life Sciences 23

Pluripotency in Domestic Animal Cells

This addition to the Springer Brief in Stem Cells series focuses on aspects related to the specific mechanisms that ensure and control pluripotency and cell commitment in domestic animal species. This topic is generating rapidly-increasing interest due to the great potential for domestic animal species to be used as intermediate biomedical models, between the mouse and the human. The Brief addresses why we need large animal models for regenerative medicine. It also describes early embryo development with a careful and specific analysis of the regulatory mechanisms driving cleavage, polarization and genome activation in domestic species. How pluripotency is compartmentalized...[...]

Features
This addition to the Springer Brief in Stem Cells series focuses on aspects related to the specific mechanisms that ensure and control pluripotency and cell commitment in domestic animal species. This topic is generating rapidly-increasing interest due to the great potential for domestic animal species to be used as intermediate biomedical models, between the mouse and the human. The Brief addresses why...[...]

Contents
Early Embryo Development in Large Animals.- Syngamy and Spindle Formation. - Cleavage, compaction and blastulation. - Cell commitment. - Naïve versus established epithelium. - Pluripotency in Domestic Animal Embryos. - Expression, restriction and interactions of molecules involved in the control of cell potency and commitment. - Species-specific and stage-specific pluripotency markers. - Use of Large Animal Models for Regenerative Medicine. - Why do we need stem cell line from large animal species?. - What are the applications and potentials. - What are the limits?.

Fields of interest
Stem Cells; Embryology; Cell Biology; Reproductive Medicine

Type of publication
Research

More on www.springer.com/978-1-4899-8052-6

Animal Communication and Noise

The study of animal communication has led to significant progress in our general understanding of motor and sensory systems, evolution, and speciation. However, one often neglected aspect is that signal exchange in every modality is constrained by noise, be it in the transmission channel or in the nervous system. This book analyses whether and how animals can cope with such constraints, and explores the implications that noise has for our understanding of animal communication. It is written by leading biologists working on different taxa including insects, fish, amphibians, lizards, birds, and mammals. In addition to this broad taxonomic approach, the chapters also cover a wide array...[...]

Features
The study of animal communication has led to significant progress in our general understanding of motor and sensory systems, evolution, and speciation. However, one often neglected aspect is that signal exchange in every modality is constrained by noise, be it in the transmission channel or in the nervous system. This book analyses whether and how animals can cope with such constraints, and explores the...[...]

Contents

Fields of interest
Behavioural Sciences: Animal Physiology; Neurobiology; Evolutionary Biology; Noise Control

Type of publication
Research

More on www.springer.com/978-3-642-41493-0

H. Bleckmann, University of Bonn, Bonn, Germany; J. Mogdans, S.L. Coombs (Eds.)
Mitochondria as Targets for Phytochemicals in Cancer Prevention and Therapy

This book highlights the importance of phytochemicals and mitochondria in cancer prevention and therapy. Recent scientific discoveries have identified that naturally occurring biologically active compounds (i.e., phytochemicals) target multiple steps of tumorigenesis leading to the inhibition or delay in cancer progression. Mitochondria, organelles within a cell, are a critical target for phytochemicals in regulating the initiation, promotion, and progression of cancer. The book is divided into three parts to better communicate the important findings related to phytochemicals and mitochondria in cancer research. The first part describes updates on environmental and genetic factors.[...]

Contents
OxPhos Defects and Their Role in Cancer Initiation and Progression. - Estrogen Receptor -Tumor Suppressor Protein p53 Signaling Crosstalk as Potential Targets of Xenoestrogens.- Mitochondrial Regulation of Cell-Death. - Cell Death Inducing Mechanisms of Cancer Chemopreventive Agents. - Dietary Phytochemicals Target Cancer Stem Cells for Cancer Chemoprevention. - Basic and translational research on dietary phytochemicals and cancer prevention. - Mitochondrial Reactive Oxygen Species in Proapoptotic Effect of Promising Cancer Chemopreventive Phytochemicals. - Therapeutic action of [...]

Fields of interest
Cell Biology; Cancer Research; Apoptosis

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-9325-9

Hardcover
Due: December 31, 2013

Antarctic Terrestrial Microbiology

Physical and Biological Properties of Antarctic Soil Habitats

This book brings together many of the world’s leading experts in the fields of Antarctic terrestrial soil ecology, providing a comprehensive and completely up-to-date analysis of the status of Antarctic soil microbiology. Antarctic terrestrial soils represent one of the most extreme environments on Earth. Once thought to be largely sterile, it is now known that these diverse and often specialized extreme habitats harbor a very wide range of different microorganisms. Antarctic soil communities are relatively simple, but not unsophisticated. Recent phylogenetic and microscopic studies have demonstrated that these communities have well established trophic structuring and play a significant [...]

Features
This book brings together many of the world’s leading experts in the fields of Antarctic terrestrial soil ecology, providing a comprehensive and completely up-to-date analysis of the status of Antarctic soil microbiology. Antarctic terrestrial soils represent one of the most extreme environments on Earth. Once thought to be largely sterile, it is now known that these diverse and often specialized [...]
Horticulture: Plants for People and Places, Volume 3

Social Horticulture

This Trilogy explains “What is Horticulture?”. Volume three of Horticulture: Plants for People and Places presents readers with detailed accounts of the scientific and scholarly concepts which interact with the arts and humanities and which now underpin the rapidly evolving subject of Social Horticulture. This discipline transcends the barriers between science, medicine and the arts. This volume covers: Horticulture and Society, Diet and Health, Psychological Health, Wildlife, Horticulture and Public Welfare, Education, Extension, Economics, Exports and Biosecurity, Scholarship and Art, Scholarship and Literature, Scholarship and History and the relationship between Horticulture [...]

Contents


Fields of interest

Agriculture; Food Science; Environment (general); Business & Management Science; Social Sciences (general); Humanities

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8559-4

Hardcover

2014. Approx. 250 p. 106 illus., 65 illus. in color. ISBN 978-94-017-8559-4

Due: February 28, 2014

Horticulture: Plants for People and Places, Volume 2

Environmental Horticulture

This Trilogy explains “What is Horticulture?”. Volume two of Horticulture: Plants for People and Places analyses in depth the scientific, managerial and ecological concepts which underpin Environmental Horticulture. Chapters describe: Horticulture and the Environment, Woody Ornamentals, Herbs and Pharmaceuticals, Urban Greening, Rural Trees, Urban Trees, Turfgrass Science, Interior and External Landscaping, Biodiversity, Climate Change and Organic Production. Each is written by leading international experts. Sustainable use of resources and careful conservation are critically essential for the continuation of life on this Planet. Achieving this is where horticulture, natural flora and [...]

Contents


Fields of interest

Agriculture; Food Science; Environment (general); Business & Management Science; Social Sciences (general); Humanities

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8580-8

Hardcover

2014. Approx. 250 p. 58 illus., 47 illus. in color. ISBN 978-94-017-8580-8

Due: February 28, 2014

Horticulture: Plants for People and Places, Volume 1

Production Horticulture

This Trilogy explains “What is Horticulture?”. Volume one of Horticulture: Plants for People and Places describes how the array of plentiful, high quality fresh fruit, vegetables, and ornamentals supplied to retail consumers is achieved. This feat demands the intensive manipulation of plant growth, reproduction and postharvest husbandry across the globe. International Production Horticulture operates in a free market arena, delivering produce [...]

Contents


Fields of interest

Agriculture; Food Science; Environment (general); Business & Management Science; Social Sciences (general); Humanities

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8577-8

Hardcover

2014. Approx. 250 p. 149 illus., 126 illus. in color. ISBN 978-94-017-8577-8

Due: February 28, 2014
Studies on Periodontal Disease

The chapters of Studies on Periodontal Disease comprise four parts. Part 1 provides basic sciences from the general to the particular. The findings of cell culture and animal models supply the mechanism between periodontal disease and oxidative stress. In part 2, human clinical studies are mainly addressed. The effects of periodontal therapy on circulating oxidative stress are also discussed. The relationships between periodontal disease and systemic diseases are examined in part 3. The involvement of oxidative stress and inflammation are discussed through in vivo and in vitro study results. Part 4 discusses future strategies, including the effects of antioxidants and nutrition on [...]
Gene Network Inference

Verification of Methods from Systems Genetics Data

This book presents recent methods for Systems Genetics (SG) data analysis, applying them to a suite of simulated SG benchmark datasets. Each of the chapter authors received the same datasets to evaluate the performance of their method to better understand which algorithms are most useful for obtaining reliable models from SG datasets. The knowledge gained from this benchmarking study will ultimately allow these algorithms to be used with confidence for SG studies e.g. of complex human diseases or food crop improvement. The book is primarily intended for researchers with a background in the life sciences, not for computer scientists or statisticians.

Features
This book presents recent methods for Systems Genetics (SG) data analysis, applying them to a suite of simulated SG benchmark datasets. Each of the chapter authors received the same datasets to evaluate the performance of their method to better understand which algorithms are most useful for obtaining reliable models from SG datasets. The knowledge gained from this benchmarking study will ultimately allow [...]
Indian Herbal Drug Microscopy

Adulteration and misidentification of herbal drugs can cause serious health problems to consumers. The first step in quality control of medicinal plants is ensuring the authenticity of the desired species for intended use, with anatomical study playing a critical role in identifying and authenticating medicinal plants. A product of numerous years of experience and research, Indian Herbal Drug Microscopy is a vital resource for identifying and evaluating Indian medicinal plants. Comprised of four concise and comprehensive chapters, the book presents stepwise procedures for sectioning of plant material, histochmical staining techniques, and the anatomy of forty well-known and [...] [1]

Features
Adulteration and misidentification of herbal drugs can cause serious health problems to consumers. The first step in quality control of medicinal plants is ensuring the authenticity of the desired species for intended use, with anatomical study playing a critical role in identifying and authenticating medicinal plants. A product of numerous years of experience and research, Indian Herbal Drug [...] [2]

Contents

Fields of interest
Plant Physiology; Plant Biochemistry; Plant Sciences; Cell Biology; Plant Anatomy / Development; Developmental Biology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-9514-7

Hardcover
2014, XV, 207 p. 78 illus. in color.

Due: December 31, 2013

Cultivating Biodiversity to Transform Agriculture

How can cultivated plant biodiversity contribute to the transformation and the “ecologization” of agriculture in Southern countries? Based on extensive field work in the Southern countries, a great deal of scientific progress is presented in all areas affecting agriculture (agronomy, plant breeding and crop protection, cultivation systems, etc.) in order to intensify the ecological processes in cultivated plots and at the scale of rural landscapes.

Features
Agriculture is the primary human activity: it involves 1.3 billion people, nearly a quarter of the world’s population and half of its labour force. The cultivated area, i.e., the area where humans plan and directly control the vegetation cover, now represents over 20% of the landmass. Faced with the challenges of demography and poverty, agricultural systems, in all their diversity, are being called upon to [...] [3]

Contents

Fields of interest
Agriculture; Sustainable Development; Ecosystems; Nature Conservation; Plant Ecology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-7983-9

Hardcover
2013, XXVIII, 300 p. 56 illus., 54 illus. in color.
ISBN 978-94-007-7983-9

usually dispatched within 3 to 5 business days

December 31, 2013

Comparative Medicine

Anatomy and Physiology

This new volume provides a concise overview of the most basic and exciting chapters of comparative medicine with regards to physiology and function in healthy individuals. The book includes core concepts in anatomy and physiology in human and animal models, which are key to understanding comparative medicine and to making contributions to research in this area. While writing this book, the authors were in constant interdisciplinary dialogue. They aim to contribute to improvements in quality of life for human and animal patients.

Features
This new volume provides a concise overview of the most basic and exciting chapters of comparative medicine with regards to physiology and function in healthy individuals. The book includes core concepts in anatomy and physiology in human and animal models, which are key to understanding comparative medicine and to making contributions to research in this area. While writing this book, the authors were in [...] [5]

Contents

Fields of interest
Animal Models; Anatomy; Animal Physiology; Human Physiology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-7091-1558-9

Hardcover
2014, XXVII, 300 p. 56 illus., 54 illus. in color.
ISBN 978-3-7091-1558-9

Due: January 31, 2014
The Evolution of Mammalian Sociality in an Ecological Perspective

Evolutionary transitions to sociality within and between mammalian taxa are central to a scientific understanding of sociality as a phenomenon. The introduction to the proposed brief presents the class as the most ecologically dominant terrestrial vertebrate fauna. Section 2 details the monograph’s application of r*large and r*small, situating these notations in the context of Hamilton’s “kin selection” paradigm describing “decisions” (Fig. 1.1) to allocate reproductive effort as direct (individual) reproduction, on the one hand, and indirect reproduction via helping kin’s reproductive interests, on the other. This section introduces the assumption that some mammals have managed[...]

Features
Evolutionary transitions to sociality within and between mammalian taxa are central to a scientific understanding of sociality as a phenomenon. The introduction to the proposed brief presents the class as the most ecologically dominant terrestrial vertebrate fauna. Section 2 details the monograph’s application of r*large and r*small, situating these notations in the context of Hamilton’s “kin selection”[...]

Contents

Fields of interest
Animal Ecology; Theoretical Ecology / Statistics; Evolutionary Biology; Applied Ecology

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-319-03930-5

Softcover
2014, I, 150 p. 10 illus., 3 illus. in color. (SpringerBriefs in Ecology)
ISBN 978-3-319-03930-5
Due: February 28, 2014

M.-P. Junier, S.G. Kerrie (Eds.)

Endogenous Stem Cell-Based Brain Remodeling in Mammals

This text highlights the endogenous regenerative potential of the central nervous system in neonates and juveniles and discusses possible ways it might be manipulated for medical purposes. The first section provides a descriptive summary of the salient steps of human brain development with a discussion of comparisons with other mammalian brains. It also provides a historical perspective on our understanding of ongoing brain development throughout the lifespan and serve to introduce the concept of brain plasticity following injury. The second part is devoted to the endogenous repressive potential of the brain, including its limitations, and articles focusing on defined pathologies[...]

Features
This book uses the juvenile mammalian brain as a starting point to describe how different injury mechanisms influence neuronal and glial progenitor response to injury, and how in certain circumstances, these cells might play adaptive or harmful roles in recovery. It also provides an overview of emerging concepts in progenitor biology and how current understanding of the processes regulating these cells has[...]

Contents
Introduction.- Structural Plasticity in Adult Nervous System: A Historic Perspective.- Impact of Injured Tissue on Stem Cell Fate.- Role of Neural Stem and Progenitor Cells in the Adaptation of the Brain to Injury.- Role of Adult Neurogenesis in Seizure-Induced Hippocampal Remodeling and Epilepsy.- Neurogenesis and Gliogenesis in the Prenatal Hypothalamus: a new level of plasticity for the regulation of hypothalamic function?.- Regenerative Potential of NG2 Cells.- Oligodendrocyte Progenitors and Brain Remodeling Following Blood Brain Barrier Rupture.- Genomic Integrity of Embryonic[...]

Fields of interest
Stem Cells; Cell Biology; Neurosciences; Neurochemistry; Cancer Research

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4899-7398-6

Hardcover
2014, VII, 250 p. 21 illus., 19 illus. in color. (Stem Cell Biology and Regenerative Medicine)
ISBN 978-1-4899-7398-6
Due: February 28, 2014

E.I. Katsy, Institute of Biochemistry and, Saratov, Russian Federation (Ed.)

Plasticity in Plant-Growth-Promoting and Phytopathogenic Bacteria

Plasticity in Plant-Growth-Promoting and Phytopathogenic Bacteria brings together the expertise of a panel of researchers from around the world to provide comprehensive up-to-date reviews on the most interesting aspects of genomic and phenotypic plasticity in plant-beneficial and phytopathogenic bacteria. The book covers various topics, including common and specific features in the genomes of symbiotic, plant-growth-promoting, and phytopathogenic bacteria. The book covers various topics, including common and specific features in the genomes of[...]

Features
Plasticity in Plant-Growth-Promoting and Phytopathogenic Bacteria brings together the expertise of a panel of researchers from around the world to provide comprehensive up-to-date reviews on the most interesting aspects of genomic and phenotypic plasticity in plant-beneficial and phytopathogenic bacteria. The book covers various topics, including common and specific features in the genomes of[...]

Contents
Common Themes and Specific Features in the Genomes of Phytopathogenic and Plant-Beneficial Bacteria. - Ecology and Physiology of Non-Frankia Actinobacteria Associated with Actinorhizal Plants.- Boundaries for Conjugative Transfer of Rhizobial Plasmids: Restraining and Releasing Factors.- Phase Variation in Plant-Associated Pseudomonads.- Plasmid Rearrangements and Changes in Cell-Surface Architecture and Social Behavior of Azospirillum brasilense.- Genome Plasticity and Dynamic Evolution of Phytopathogenic Pseudomonads and Related Bacteria.- Genomic Flux in Xanthomonas Group of Plant[...]

Fields of interest
Microbiology; Plant Sciences; Plant Pathology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-9202-3

Hardcover
2014, 240 p. 36 illus., 30 illus. in color. (SpringerBriefs in Ecology)
Due: February 28, 2014
New Principles in Developmental Processes

During the last decade, modern technologies have made a revolutionary change in developmental biology. The molecular and cellular processes in live embryos can now be visualized thanks to technologies using fluorescent proteins. The whole genome information of a wide range of animal species has now become available, confirming the common principles that operate in every species. These and other advances in our understanding of the developmental processes during embryogenesis and tissue regeneration have put forward new principles. Those new principles will also be important in the stem cell biology, branched from developmental biology, in order to generate a particular tissue by[...]

Features

This book highlights representatives of emerging new principles in the developmental biology field, such as cell competition, tissue asymmetry, a farewell to classical germ layer theory, and various new insights into tissue morphogenesis and specification based on the most modern experimental approaches. A large-scale paradigm shift occurred in the last decade owing to innovations in powerful live imaging[...]

Contents

Part I Making cells unequal in a tissue to form embryos and organs.- Chapter 1 Taxon-specific maternal factors for germ line specification.- Chapter 2 Establishment of Anterior(Posterior) axis in the mouse embryo.- Chapter 3 Cell competition: the struggle for existence in multicellular communities.- Chapter 4 Building functional internal organs from a naive endodermal sheet.- Part II Choosing a fate from multiple potencies.- Chapter 5 Determination of stem cell fate in planarian regeneration.- Chapter 6 Regulation of axial stem cells deriving neural and of stem cell fate in planarian regeneration.- Chapter 6 Determination of stem cell fate in planarian regeneration.- Chapter 7 Formation of tissues during posterior[...]

Fields of interest

Developmental Biology; Stem Cells; Cell Biology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-4-431-54633-7

Hardcover

2014. XV, 397 p. 120 illus., 40 illus. in color. ISBN 978-4-431-54633-7

Due: January 31, 2014

Subtelomeres

New genes and diversity leading to adaptation and evolution are generated in special areas of genomes. One such area in all eukaryotic genomes and in those prokaroytes with linear chromosomes is the region near the ends of the chromosomes. These telomere-associated sequences or subtelomeres, have different properties than the rest of the genome and are one of the most exciting frontiers left in genomics. This book provides a broad introduction to the field of subtelomeres with detailed information from various fields and systems, covering yeasts and fungi, pathogens and parasites, plants, insects, humans and primates and bacteria with linear chromosomes. Advances in the field as well[...]

Features

New genes and diversity leading to adaptation and evolution are generated in special areas of genomes. One such area in all eukaryotic genomes and in those prokaroytes with linear chromosomes is the region near the ends of the chromosomes. These telomere-associated sequences, or subtelomeres, have different properties than the rest of the genome and are one of the most exciting frontiers left in genomics.[...]

Contents


Fields of interest

Cell Biology; Biochemistry; Cytogenetics; Evolutionary Biology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-3-642-41565-4

Hardcover

2014. X, 291 p. 48 illus., 19 illus. in color. ISBN 978-3-642-41565-4

Due: December 31, 2013

Forestry Applications of Airborne Laser Scanning

Concepts and Case Studies

Airborne laser scanning (ALS) has emerged as one of the most promising remote sensing technologies to provide data for research and operational applications in a wide range of disciplines related to management of forest ecosystems. This book provides a comprehensive, state-of-the-art review of the research and application of ALS in a broad range of forest-related disciplines, especially forest inventory and forest ecology. However, this book is more than just a collection of individual contributions – it consists of a well-composed blend of chapters dealing with fundamental methodological issues and contributions reviewing and illustrating the use of ALS within various domains of[...]

Features

Airborne laser scanning (ALS) has emerged as one of the most promising remote sensing technologies to provide data for research and operational applications in a wide range of disciplines related to management of forest ecosystems. This book provides a comprehensive, state-of-the-art review of the research and application of ALS in a broad range of forest-related disciplines. However, this book is more than[...]

Contents

1. Introduction to forest applications of airborne laser scanning: Jari Vauhkonen et al. - PART I - Methodological issues.- 2. Laser pulse interaction with forest canopy – geometric and radiometric issues; Andreas Roncat et al. - 3. Full-waveform airborne laser scanning systems and their possibilities in forest applications; Markus Hollaus et al.- 4. Integrating airborne laser scanning with data from global navigation satellite systems and optical sensors; Rubén Valbuena.- 5. Segmentation of forest to tree objects; Barbara Koch et al.- 6. The semi-individual tree crown approach; Johannes[...]

Fields of interest

Forestry; Remote Sensing / Photogrammetry; Environment (general)

Target groups

Graduate

Type of publication

Contributed volume

More on www.springer.com/978-94-017-8662-1

Hardcover

2014. Approx. 400 p. 50 illus., 19 illus. in color. (Managing Forest Ecosystems, Vol. 27) ISBN 978-94-017-8662-1

Due: May 28, 2014
Breeding and Biotechnology of Tea and its Wild Species

Tea is an important non-alcoholic beverage plant of the world. Cultivation of tea is very important as it earns revenue for the tea growing nations especially the developing countries such as India. Although conventional breeding is well-established and has contributed significantly for varietal improvement of this plant and other Camellia species with ornamental value, yet applications of biotechnology are required to intervene some of the issues where conventional breeding is restricted particularly for woody plants such as tea. It is note-worthy to mention that some amounts of biotechnology works in several facets of tea and its wild species have also been done. In the present...[

Features
Tea is an important non-alcoholic beverage plant of the world. Cultivation of tea is very important as it earns revenue for the tea growing nations especially the developing countries such as India. Although conventional breeding is well-established and has contributed significantly for varietal improvement of this plant and other Camellia species with ornamental value, yet applications of biotechnology are...[

Scientific Writing and Communication in Agriculture and Natural Resources

The purpose of this book is to help early career professionals in agriculture and natural resources write their research papers for high-quality journals and present their results properly at professional meetings. Different fields have different conventions for writing style such that the authors of the book have found it difficult to recommend to young scientists in these fields a specific book or source material out of the several that are available as the “go to” guide. Writing a scientific paper is a tedious task even to experienced writers; but it is particularly so for the early career professionals such as students, trainees, scientists and scholars in agriculture and natural...[

Features
Perhaps there is no dearth of books, reference manuals, and internet sources on scientific writing. Given, however, that different fields have different conventions for writing style, we have found it difficult to recommend a specific book or source material as the “go to” guide to young scientists in agriculture and natural resources. Having been involved as authors, reviewers, and editors of various...[

Contents

Fields of interest
Plant Sciences; Biotechnology; Proteomics; Plant Genetics and Genomics

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-81-322-1703-9

Hardcover
2014. Approx. 170 p. 12 illus., 5 illus. in color.
Due: February 28, 2014

Applied Plant Cell Biology

Cellular Tools and Approaches for Plant Biotechnology

The aim of this volume is to merge classical concepts of plant cell biology with the recent findings of molecular studies and real-world applications in a form attractive not only to specialists in the realm of fundamental research, but also to breeders and plant producers. Four sections deal with the control of development, the control of stress tolerance, the control of metabolic activity, and novel additions to the toolbox of modern plant cell biology in an exemplary and comprehensive manner and are targeted at a broad professional community. It serves as a clear example that a sustainable solution to the problems of food security must be firmly rooted in modern, continuously self...[

Features
The aim of this volume is to merge classical concepts of plant cell biology with the recent findings of molecular studies and real-world applications in a form attractive not only to specialists in the realm of fundamental research, but also to breeders and plant producers. Four sections deal with the control of development, the control of stress tolerance, the control of metabolic activity, and novel...[

Contents

Fields of interest
Plant Breeding / Biotechnology; Cell Biology; Plant Physiology; Plant Biochemistry

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-41786-3

Softcover
2014. XII, 134 p. 20 illus., 7 illus. in color.
ISBN 978-3-319-03100-2
Due: December 31, 2013

Hardcover
2014. XII, 600 p. 48 illus., 26 illus. in color. (Plant Cell Monographs, Vol. 22)
ISBN 978-3-642-41786-3
Due: January 31, 2014
Studies in Diabetes

Studies on Diabetes examines how increased oxidative and nitrosative stress – one of the leading causes of diabetes complications – pathologically affects multiple tissues in the body. The volume editors and chapter authors are leading investigators in the field of basic and clinical research in diabetes and vascular disease. Their contributions represent a wealth of knowledge on and research into how diabetes triggers metabolic abnormalities that lead to hyperactivation of cellular and mitochondrial pathways that ultimately result in oxidative and nitrosative stress that left un-neutralized, results in tissue damage. Each chapter provides the reader with invaluable insight into the...[...]

Features
Studies on Diabetes examines how increased oxidative and nitrosative stress – one of the leading causes of diabetes complications – pathologically affects multiple tissues in the body. The volume editors and chapter authors are leading investigators in the field of basic and clinical research in diabetes and vascular disease. Their contributions represent a wealth of knowledge on and research into.[...]

Contents

Fields of interest
Oxidative Stress; Cell Biology; Diabetes

Target groups
Professional/practitioner

Type of publication
Contributed volume


Hardcover

Due: February 28, 2014

Forest Soils

Properties and Management

Forest soil characteristics are not only unique but their interpretation also differs from cropland soils. Just as there are diverse forest types, there are many soil variants that need different management. Today, forest plantations are being intensively managed for profitable timber, pulpwood and energy production. Site selection, species selection, site productivity evaluation, silvicultural treatments, and soil amendments need crucial soil information. This book provides a comprehensive overview of the physical, chemical and biological properties of forest soils and their implications on forest vegetation. Topics discussed include: major forest types of the world and their[...]

Features
Forest soil characteristics are not only unique but their interpretation also differs from cropland soils. Just as there are diverse forest types, there are many soil variants that need different management. Today, forest plantations are being intensively managed for profitable timber, pulpwood and energy production. Site selection, species selection, site productivity evaluation, silvicultural treatments, [...]

Contents

Fields of interest
Forestry; Soil Science & Conservation; Earth Sciences (general); Forestry Management; Environmental Management

Target groups
Lower undergraduate

Type of publication
Monograph

More on www.springer.com/978-3-319-02540-7

Hardcover
2013. XI, 217 p. 82 illus., 55 illus. in color. ISBN 978-3-319-02540-7

Due: December 31, 2013

Integrated Pest Management

Experiences with Implementation, Global Overview, Vol 4

The book deals with the present state and problems of integrated pest management (IPM) as relating to stakeholder acceptance of IPM and how IPM can become a sustainable practice. The book covers the implementation of integrated pest management in USA, Canada, Denmark, Germany, Italy, Sweden, Netherlands, China, India, Indonesia, Australia, Africa, and its impact in reducing pesticide use in agriculture. The book also deals with the impact of transgenic crops on pesticide use.

Features
The book, the fourth in the series on integrated pest management (IPM), deals with the experiences of the implementation and impact of IPM in Africa, Asia (China, India and Indonesia), Australia, North America (Canada and the United States), and Europe (Denmark, Germany, Italy, the Netherlands and Sweden). Despite five decades since the concept of integrated control and threshold theory was developed, and[...]

Contents
Plant Life of the Dolomites
Vegetation Structure and Ecology

The landscape and vegetation of the Dolomites have characteristics that are very particular. Some 2300 species live here, about a fifth of the flora in Europe as a whole. This book depicts what the plant cover of the Dolomites is composed of, how it was formed, and what future evolution may bring. The data presented is based on the authors’ combined botanical research, which consists of thousands of surveys throughout the entire region of the Dolomites. To explain the vegetation, 106 plant communities are described in detailed datasheets. Biological, geological, climatic and physical-chemical parameters are given for each plant community, including a description of the habitat, etc.

Features
The landscape and vegetation of the Dolomites have characteristics that are very particular. Some 2300 species live here, about a fifth of the flora in Europe as a whole. This book depicts what the plant cover of the Dolomites is composed of, how it was formed, and what future evolution may bring. The data presented is based on the authors’ combined botanical research, which consists of thousands of surveys.

Contents

Field of interest
Plant Ecology; Plant Systematics / Taxonomy / Biogeography; Plant Physiology; Terrestrial Ecology; Biogeochemistry

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-31042-3

Hardcover
Jointly published with the Museum of Nature South Tyrol as “Publication of the Museum of Nature South Tyrol Nr. 8” 2014, XXXVII, 759 p. 503 illus., 487 illus. in color. ISBN 978-3-642-31042-3

Due: January 9, 2014

Integrated Pest Management
Pesticide Problems, Volume 3

The book deals with the present state and problems of integrated pest management as relating to stakeholder acceptance of IPM and how integrated pest management can become a sustainable practice. The discussions include using less pesticides and the possibility of eliminating pesticides from agricultural practice.

Features
This book, the third in the series on integrated pest management (IPM), deals with pesticide use and the negative consequences of pesticide use in world agriculture. Despite some notable success, IPM implementation and pesticide reduction programs have not achieved the envisioned impact. Low volume pesticides and Bt crops both decreased and stabilized pesticide use in the last two decades, but in the last [...]"
Alien Gene Transfer in Crop Plants, Volume 2

Achievements and Impacts

Genetic engineering and biotechnology along with conventional breeding have played an important role in developing superior cultivars by transferring economically important traits from distant, wild and even unrelated species to the cultivated varieties which otherwise could not have been possible with conventional breeding. There is a vast amount of literature pertaining to the genetic improvement of crops over the last few decades. However, the wonderful results achieved by crop scientists in food legumes’ research and development over the years are scattered in different journals of the World. The two volumes in the series ‘Alien Gene Transfer in Crop Plants’ address this issue and […]

Features

Alien gene transfer in crop plants from wild and genetically distinct resources enables engineered breeding to impart resistance to diseases and pests, tolerance to temperature extremities, problem soils and reduced water availability, as well as to improve yield, nutrition and storage. Encouraged by the success of alien gene transfer in crop plants, researchers have devised strategies to bring in useful […]

Contents


Fields of interest

Plant Genetics and Genomics; Plant Breeding / Biotechnology; Plant Sciences; Plant Anatomy / Development

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-9571-0

Hardcover

2014. XVI, 454 p. 37 illus., 31 illus. in color.
ISBN 978-1-4614-9571-0
Due: December 31, 2013

Forests and Rural Development

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

Features

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

Contents


Fields of interest

Forestry Management; Agriculture; Forestry

Target groups

Research

Type of publication

Contributed volume

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

Hardcover

2014. XII, 428 p. 55 illus., 18 illus. in color. (Tropical Forestry, Vol. 9)
ISBN 978-3-642-41403-9
Due: January 31, 2014

Biotechnology: Prospects and Applications

Biotechnology: Prospects and Applications covers the review of recent developments in biotechnology and international authorship presents global issues that help in our understanding of the role of biotechnology in solving important scientific and societal problems for the benefit of mankind and environment. A balanced coverage of basic molecular biology and practical applications, relevant examples, colored illustrations, and contemporary applications of biotechnology provide students and researchers with the tools and basic knowledge of biotechnology. In our effort to introduce students and researchers to cutting edge techniques and applications of biotechnology, we dedicated […]

Features

Biotechnology: Prospects and Applications covers the review of recent developments in biotechnology and international authorship presents global issues that help in our understanding of the role of biotechnology in solving important scientific and societal problems for the benefit of mankind and environment. A balanced coverage of basic molecular biology and practical applications, relevant examples, colored […]

Contents


Fields of interest

Life Sciences (general); Plant Breeding / Biotechnology; Environment (general); Biomedicine (general)

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-81-322-1682-7

Hardcover

2014. VII, 296 p. 68 illus., 43 illus. in color.
ISBN 978-81-322-1682-7
Due: January 31, 2014
Plant Virus and Viroid Diseases in the Tropics

Volume 2: Epidemiology and Management

K.S. Sastry, SV University, Tirupathi, India; Th. A. Zitter, Cornell University, Ithaca, USA

Engineering and Science of Biomass Feedstock Production and Provision

The biomass based energy sector, especially the ones based on lignocellulosic sources such as switchgrass Miscanthus, forest residues and short rotation coppice, will play an important role in our drive towards renewable energy. The biomass feedstock production (BFP) subsystem provides the necessary material inputs to the conversion processes for energy production. This subsystem includes the agronomic production of energy crops and the physical handling and delivery of biomass, as well as other enabling logistics. Achieving a sustainable BFP system is therefore paramount for the success of the emerging bioenergy sector. However, low bulk and energy densities, seasonal and weather [...]
Biosonar

Two groups of animals, bats and odontocetes (toothed whales), have independently developed the ability to orient and detect prey by biosonar (echolocation). This active mechanism of orientation allows these animals to operate under low light conditions. Biosonar is a conceptual overview of what is known about biosonar in bats and odontocetes. Chapters are written by bat and odontocetes experts, resulting in collaborations that not only examine data on both animals, but also compare and contrast mechanisms. This book provides a unique insight that will help improve our understanding of biosonar in both animal groups.

Features

Two groups of animals, bats and odontocetes (toothed whales), have independently developed the ability to orient and detect prey by biosonar (echolocation). This active mechanism of orientation allows these animals to operate under low light conditions. Biosonar is a conceptual overview of what is known about biosonar in bats and odontocetes. Chapters are written by bat and odontocetes experts, [...]
Spatial Database for GPS Wildlife Tracking Data

A Practical Guide to Creating a Data Management System with PostgreSQL/PostGIS and R

This book guides animal ecologists, biologists and wildlife and data managers through a step-by-step procedure to build their own advanced software platform to manage and process wildlife tracking data. This unique, problem-solving-oriented guide focuses on how to extract the most from GPS animal tracking data, while preventing error propagation and optimizing analysis performance. Based on the open source PostgreSQL/PostGIS spatial database, the software platform will allow researchers and managers to integrate and harmonize GPS tracking data together with animal characteristics, environmental data sets, including remote-sensing time series, and other bio-logged data such as...

Features
This book guides animal ecologists, biologists and wildlife and data managers through a step-by-step procedure to build their own advanced software platform to manage and process wildlife tracking data. This unique, problem-solving-oriented guide focuses on how to extract the most from GPS animal tracking data, while preventing error propagation and optimizing analysis performance. Based on the open source PostgreSQL/PostGIS spatial database, the software platform will allow researchers and managers to integrate and harmonize GPS tracking data together with animal characteristics, environmental data sets, including remote-sensing time series, and other bio-logged data such as...

Contents

Fields of interest
Animal Ecology; Conservation Biology / Ecology; Zoology; Biodiversity; Community & Population Ecology; Behavioural Sciences

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-81-322-1700-8

Hardcover

Due: February 28, 2014

A. Varshney, Aligarh Muslim University, Aligarh, India; M. Anis, Aligarh Muslim University, Aligarh, India

Trees: Propagation and Conservation

Biotechnological Approaches for Propagation of a Multipurpose Tree, Balanites aegyptiaca Del

Plant tissue culture is an essential component of Biotechnology which has gained unbeatable recognition in plant sciences for successful micropropagation and improvement of plant species, leading to the commercial application. A number of plant species have been investigated around the globe. This book presents current research on the application of in vitro technology in the improvement of Balanites aegyptiaca Del., a medicinal plant of semi-arid tropics. The worldwide importance of forestry, summed to the lengthy generation cycles of tree species, makes unavoidable development of new technologies that complement conventional tree breeding programmes in order to obtain improved...

Features
Plant tissue culture is an essential component of Biotechnology which has gained unbeatable recognition in plant sciences for successful micropropagation and improvement of plant species, leading to the commercial application. A number of plant species have been investigated around the globe. This book presents current research on the application of in vitro technology in the improvement of Balanites...

Contents
Introduction.- Review of Literature.- Material and Methods.- Results.- Discussion.- Summary and Conclusions.

Fields of interest
Plant Pathology; Plant Physiology; Plant Biochemistry; Lipidology; Plant Production Engineering

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-81-322-1700-8

Hardcover

Due: February 28, 2014

A. Varshney, Aligarh Muslim University, Aligarh, India; M. Anis, Aligarh Muslim University, Aligarh, India

Phospholipases in Plant Signaling

This volume focuses on recent advances in the biochemical and molecular analysis of different families of phospholipases in plants and their roles in signaling plant growth, development, and responses to abiotic and biotic cues. The hydrolysis of membrane lipids by phospholipases produces different classes of lipid mediators, including phosphatidic acid, diacylglycerol, lysophospholipids, free fatty acids and oxylipins. Phospholipases are grouped into different families and subfamilies according to their site of hydrolysis, substrate usage and sequence similarities. Activating one or more of these enzymes often constitutes an early, critical step in many regulatory processes, such as...

Features
This volume focuses on recent advances in the biochemical and molecular analysis of different families of phospholipases in plants and their roles in signaling plant growth, development, and responses to abiotic and biotic cues. The hydrolysis of membrane lipids by phospholipases produces different classes of lipid mediators, including phosphatidic acid, diacylglycerol, lysophospholipids, ...

Contents

Fields of interest
Plant Physiology; Plant Biochemistry; Lipidology; Plant Pathology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-42010-8

Hardcover
2014. X, 226 p. 20 illus., 16 illus. in color. ISBN 978-3-642-42010-8

Due: January 31, 2014

X. Wang, University of Missouri-St. Louis, St. Louis, USA (Ed.)
Microbial BioEnergy: Hydrogen Production

The central theme of this book "Microbial BioEnergy: Hydrogen Production" is focused on the biological machinery that microorganisms use to produce hydrogen gas. The book summarizes the achievements over the past decade in the biochemistry, structural and molecular biology, genomics and applied aspects of microbial H₂ production, including microbial fuel cells (MFC), by phototrophs such as purple sulfur and non-sulfur bacteria (Thio- capsa spp., Rhodobacter and Rhodospseudomonas spp.) microalgae (Chlamydomonas) and cyanobacteria (Anabaena spp.) along with anaerobes and thermophiles such as Caldicellulosiruptor and Thermotoga. This is the first book of this series entirely devoted to [...] features.

Contents
Life Sciences (general); Biotechnology; Energy (gen- eral); Renewable and Green Energy; Microbiology; Applied Microbiology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-017-8553-2

Hardcover
Due: January 31, 2014

Low-Oxygen Stress in Plants

Oxygen Sensing and Adaptive Responses to Hypoxia

During the last ten years, knowledge about the multi-titude of adaptive responses of plants to low oxygen stress has grown immensely. The oxygen sensor mechanism has been discovered, the knowledge about the interaction network of gene expression is expanding and metabolic adaptations have been described in detail. Furthermore, morphological changes were investigated and the regulative mechanisms triggered by plant hormones or reactive oxygen species have been revealed. This book provides a broad overview of all these aspects of low oxygen stress in plants. It integrates knowledge from different disciplines such as molecular biology, biochemistry, ecophysiology and agricultural [...] features.

Contents
Plant Physiology; Plant Biochemistry; Plant Ecology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-7091-1253-3

Hardcover
Due: January 31, 2014

Phytoremediation for Green Energy

Human demand for energy has grown multi-folds in recent years. This is the result of rapidly increasing human population, which, in turn, has resulted in increased organic (petroleum) and inorganic pollution on the biosphere. Due to this, we are now facing a number of challenges to sustain life on earth. For example, the increased organic and inorganic pollution in our environment is leading to loss of [...] features.

Contents
Preface.- 1. Bio-Fuels: A Blessing in Disguise; O. Surriya et al.- 2. Energy, environment and the future of mankind; Y.T. Lee.- 3. Phyto-cover phyto-treat-ment technologies for enhancing environmental remediation at aluminium smelting site in India; M.N.Y. Prasad.- 4. Chromium and nickel phytotoxi-city; A. Fargašová, K. Mičieta.- 5. Physio-anatomical changes were investigated and the regulative mechanisms triggered by plant hormones or reactive oxygen species have been revealed. This book provides a broad overview of all these aspects of low oxygen stress in plants. It integrates knowledge from different disciplines such as molecular biology, biochemistry, ecophysiology and agricultural [...]
The trilogy 'Horticulture: Plants for People and Places' encapsulates and explains the fundamentals of what the disciplines of 'horticulture' and 'horticultural science' embrace and encompass currently. Those outside these disciplines, and not infrequently some inside them, find difficulty in understanding and explaining the broad church which is horticulture and horticultural science.

Fields of interest
Agriculture; Food Science; Environment (general); Business & Management Science; Social Sciences (general); Humanities

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-94-017-8640-9

Hardcover
2014, 750 p. 3 volume-set.
ISBN 978-94-017-8640-9
Due: April 8, 2014
Yes, please send me:

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______

___ copies __________________________ ISBN __________________________ $ _______