Globalized Poverty and Environment
21st Century Challenges and Innovative Solutions

This book reviews the key conceptions and economic theories of poverty, explains poverty-environment nexus, and finally offers innovative socio-economic and scientific geospatial solutions for the 21st Century.

Fields of interest
Environmental Management; Development Economics; Public Finance & Economics

Product category
Monograph

Due October 2013

- € (D) 139,09 | € (A) 142,99 | sFr 173,50
- € 129,99 | £117.00
ISBN 978-3-642-39732-5

Environmental Issues in Automotive Industry
The automotive industry is one of the most environmental aware manufacturing sectors. Product take-back regulations influence design of the vehicles, production technologies but also the configuration of automotive reverse supply chains.

Features
- Highlights the emerging trends in automotive industry regarding fulfilment of sustainable development policy
- Provides a practical application of tools and methods for solving business practice problems
- A holistic view of the life cycle management in automotive industry

Contents
Sustainability in automotive industry.- Environmental friendly practices in the automotive industry.- A declarative approach to new product development in the automotive industry.- What is influencing the sustainable attitude of the automobile industry.- Sustainability Issues for Vehicles and Fleet Vehicles Using Hybrid and Assistive Technologies.- Tools and methods for greener decision making.- Diagnostics systems as a tool to reduce and monitor gas emissions from combustion engines.- Reachability of multimodal processes cyclic steady states space.- Decision support in automotive supply chain management – declarative and operational research approach.- The Design and the Improvement of Reverse Logistics for Discarded Tires in Japan.- Recovery of end-of-life vehicles

Fields of interest
Environmental Engineering; Biotechnology; Sustainable Development; Production/Logistics; Supply Chain Management

Target groups
Research

Product category
Monograph

Due August 2013

2014. VIII, 259 p. 9 illus., 6 in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 14) Softcover
- € (D) 53,49 | € (A) 54,99 | sFr 67,00
- € 49,99 | £44.99
ISBN 978-3-319-01534-7

Due August 2013

2014. X, 131 p. 11 illus., 6 in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 14) Softcover
- € (D) 139,09 | € (A) 142,99 | sFr 173,50
- € 129,99 | £117.00
ISBN 978-3-642-23836-9
Environmental Sciences

M. Gupta Bhowon, University of Mauritius Dept of Chemistry, Faculty of Science, Reduit, Mauritius; S. Jhaumeer-Laulloo, H. Li Kam Wah, P. Ramasami, University of Mauritius Dept. of Chemistry, Faculty of Science, Reduit, Mauritius (Eds)

Chemistry: The Key to our Sustainable Future

Contents

Fields of interest
Sustainable Development; Inorganic Chemistry; Organic Chemistry

Target groups
Research

Product category
Proceedings

M. A. Khan, University of Karachi Inst. Sustainable Halophyte Utilization, Karachi, Pakistan; B. Böer, UNESCO Doha, Doha, Qatar; M. Öztürk, Ége University Center for Environmental Studies, Bornova, Izmir, Turkey; T. Z. Al Abdessalaam, Environmental Agency, Abu Dhabi (EAD) Marine Environment Research Centre, Abu Dhabi, Utd Arab. Emir.; M. Clüsener-Godt, UNESCO Headquarters, Natural Sciences Se, Paris Cedex 15, France; B. Gul, University of Karachi, Karachi, Pakistan (Eds)

Sakbka Ecosystems: Volume IV: Cash Crop Halophyte and Biodiversity Conservation

Contents

Fields of interest
Sustainable Development; Renewable and Green Energy; Security and Technology

Target groups
Graduate

Product category
Proceedings

Due August 2013

Softcover 2014. XVI, 400 p. 74 illus., 59 in color. (NATO Science for Peace and Security Series C: Environmental Security)► * € (D) 96,29 | € (A) 98,99 | sFr 120,00► approx. € 89,99 | £81.00
ISBN 978-94-007-7172-7

Hardcover 2014. XVI, 400 p. 74 illus., 59 in color. (NATO Science for Peace and Security Series C: Environmental Security)► * € (D) 181,89 | € (A) 186,99 | sFr 226,50► * € 169,99 | £153.00
ISBN 978-94-007-7160-4

Due September 2013

2014. VII, 359 p. 113 illus., 77 in color. Hardcover ► * € (D) 203,29 | € (A) 208,99 | sFr 253,00► € 189,99 | £171.00

2014. Approx. 300 p. 75 illus. (Tasks for Vegetation Science, Volume 47) Hardcover ► * € (D) 149,75 | € (A) 153,94 | sFr 187,50► € 139,95 | £126.00
ISBN 978-94-007-7410-0

I. Linkov, US Army Corps of Engineers, Concord, USA (Ed)

Sustainable Cities and Military Installations

Contents
Study on Heterotrophic-Autotrophic Denitriﬁcation Permeable Reactive Barriers (HAD PRBs) for In Situ Groundwater Remediation

“Study on Heterotrophic-Autotrophic Denitriﬁcation Permeable Reactive Barriers (HAD PRBs) for In Situ Groundwater Remediation” is an unmatched reference work on PRBs for groundwater in situ remediation. It proposes a novel HAD PRB approach for nitrate-contaminated groundwater remediation, and provides a systematic and clear explanation of design concepts and denitriﬁcation mechanisms. The book consists of four chapters, each of which covers key aspects of HAD PRBs. It provides rich, easy-to-follow illustrations, tables and references.

Contents
General introduction.- Heterotrophic-aotrophic denitriﬁcation (HAD) for groundwater remediation in an aerobic environment.- Heterotrophic-autotrophic denitriﬁcation permeable reactive barriers (HAD PRBs) for groundwater remediation.- Identiﬁcation of bacterial diversity in the inoculums.

Fields of interest
Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution: Environmental Engineering/Biotechnology; Environmental Science and Engineering

Target groups
Research

Product category
Brief

Climate in Asia and the Paciﬁc Security, Society and Sustainability

Commissioned by the Intergovernmental Meeting (IGM) of the Asia-Pacific Network for Global Change Research (APN), this book offers a detailed survey of the current status of climate change and climate variability in the Asia-Paciﬁc region, a thorough and thoughtful assessment of climate and security and clear recommendations on the best paths of climate research in the future.

Features
➤ Offers a broad perspective on the impacts of climate change on society in Asia and the Paciﬁc ➤ Explores a many-layered mix of science, economics, politics and sociological concerns ➤ Provides a useful resource for scientists, policy makers and practitioners

Contents

Fields of interest
Climate Change; Earth System Sciences; Sustainable Development

Target groups
Graduate

Product category
Contributed volume

Assessment of Environmental Impact by Grocery Shopping Bags

An Eco-Functional Approach

Features
➤ First dedicated book pertaining to grocery shopping bags ➤ Highlights the eco-functional considerations along with the eco-functional framework ➤ Also highlights consumer behaviour and eco-impacts ➤ Discusses the functionality aspect of different grocery shopping bags along with their eco-impacts ➤ First descriptive book to review the manufacturing processes of shopping bags, giving a cross country description of consumption of different shopping bags, and the end-of-life stages of shopping bags

Contents

Fields of interest
Environmental Engineering/Biotechnology; Production/Logistics/Supply Chain Management; Sustainable Development

Target groups
Professional/practitioner

Product category
Monograph
Environmental Sciences

P. K. Rao, Princeton, NJ, USA

Climate Change Loss and Damage

Economic and Legal Foundations

This text works to establish essential foundations and guidelines in the current process of providing strategies, mechanisms and resources for mitigating loss and damage from the adverse impacts of climate change and climate variability. This builds on the groundwork done by the UNFCCC and other entities to facilitate the processes at the international level, pursuing a pragmatic approach and the objective specification of relevant frameworks for further actions. The primary goal is the development of integrated approaches to the assessment and reduction of loss and damage due to climate change (including climate variability), encompassing both economic and legal dimensions. The publication is aimed at readers in top-level policymaking and strategy development on the national and international level, as well as academia.

Contents

Fields of interest
Climate Change; Environmental Economics; International Environmental Law

Target groups
Research

Product category
Short

Reviews of Environmental Contamination and Toxicology
Continuation of Residue Reviews

Editor-in-chief: D. M. Whitacre

Volume 227

D. M. Whitacre, Summerfield, NC, USA (Ed)

Reviews of Environmental Contamination and Toxicology, Volume 227

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Features
- Provides detailed reviews worldwide to key scientists and science or policy administrators
- Supplies scientific review articles on all aspects of environmental contamination and associated toxicological consequences
- Facilitates the task of accessing and interpreting cogent scientific data within closely related research fields

Contents

Fields of interest
Ecotoxicology; Environmental Management; Waste Management/Waste Technology

Target groups
Research

Product category
Contributed volume

G. Schneier-Madanes, GDR CNRS 2524 Res-Eau-Ville, Paris, France (Ed)

Globalized Water

A Question of Governance

Contents

Fields of interest
Sustainable Development; Political Science, general; Economics/Management Science, general

Target groups
Research

Product category
Contributed volume

Due August 2013

2014. VII, 59 p. (SpringerBriefs in Climate Studies)
Softcover
- € (D) 53.49 | € (A) 54.99 | sFr 67.00
- € 49.99 | £44.99
ISBN 978-3-642-39563-5

Due September 2013

2014. XI, 145 p. 10 illus. Hardcover
- € (D) 106.99 | € (A) 109.99 | sFr 133.50
- € 99.99 | £90.00
ISBN 978-3-319-01326-8

Due September 2013

2014. Approx. 400 p. Hardcover
- € (D) 139.09 | € (A) 142.99 | sFr 173.50
- € 129.99 | £117.00
ISBN 978-94-007-7322-6
United Arab Emirates Keys to Soil Taxonomy

Central to human life and civilization, soils are an integral part of the physical and cultural environment. Although we may take them for granted, the rise and fall of civilizations is closely linked with the use and abuse of soil and water resources. It is therefore important to evaluate soils for their quality and link them to appropriate uses and services. This book provides information on soil classification and shows how to key out taxa relevant to UAE soils.

Features
► Provides a unique key for classifying soils of the United Arab Emirates
► Goes beyond USDA soil classification keys to include specialized criteria for UAE soils
► Includes a mechanism for updating current surveys and correlating information from new surveys

Contents
1 Soil Classification.
- 2 The Soils That We Classify.
- 3 Horizons, Layers, and Characteristics Diagnostic for the Higher Categories.
- 4 Family and Series Differentiae.
- 5 Identification of the Taxonomic Class of a Soil.
- 6 Laboratory Methods and Series Differentiae.
- 7 Soil Families and Soil Series of the United Arab Emirates.
- Index.

Fields of interest
Soil Science & Conservation; Landscape/Regional and Urban Planning; Environmental Science and Engineering

Target groups
Professional/practitioner

Product category
Monograph

Due December 2013

2014. XV, 285 p. 151 illus., 49 in color. (Humanity and the Sea) Hardcover
► * € (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-3-642-39914-5

Eels and Humans

This book explains much of what is known currently about freshwater eels, focusing on social and cultural aspects as well as science. A wealth of eel-related material is presented by scientists from around the world, including information on eel fishing, resources, distribution, aquaculture, economics, cuisine, environment and ecosystems, idioms, arts and crafts, tradition, legends, mythol-ogy, archaeology and even memorial services.

Features
► The first book to cover all aspects of eel-related sciences, i.e., cultural, social and natural sciences
► Comparisons of eel-related topics among countries show the historical link between eels and humankind
► The comprehensive understanding of eels developed in the book will lead to enhanced understanding of the need for conservation of endangered eels

Contents
1 Eels and people in the United Kingdom.
- 2 Eels and people in Ireland: From mythology to international eel stock conservation.
- 3 Eels in culture, fisheries and science in Denmark.
- 4 European eels: Dutch fisheries, culture and eel migration.
- 5 Freshwater eels and people in France.
- 6 Eels and the Japanese: An inseparable, long-standing relationship.
- 7 Eels and the Korean people.
- 8 Eels in China: Species, fisheries, stock management and culture.
- 9 Freshwater eels and humans in Taiwan.
- 10 Freshwater eels and people in New Zealand: A love/hate relationship.
- 11 The American eel: A fish of mystery and sustenance for humans.
- BM Epilogue.

Fields of interest
Marine & Freshwater Sciences; Fish & Wildlife Biology & Management; Freshwater & Marine Ecology

Target groups
Research

Product category
Contributed volume

Due September 2013

2014. VII, 98 p. 52 illus. in color. Hardcover
► * € (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-94-007-7419-3

Coastal Saline Soil Rehabilitation and Utilization Based on Forestry Approach in China

The most recent advances in research on coastal saline soil rehabilitation and utilization based on forestry approach are discussed.

Features
► First book to discuss coastal saline soil rehabilitation and utilization based on forestry approach in China
► Discusses various topics including wetland degradation, saline soil amelioration, vegetation rebuilding, and biomass production
► Offers tree species selection, site evaluation and tree planting techniques

Contents
- Part II Principles and Practice of Afforestation in Saline Soil.
- Part III Saline Soil Utilization for Biomass Production.
- Part IV Wetland Degradation and Water Shortage in Yellow River Delta Region.
- Part V Case Study.

Fields of interest
Soil Science & Conservation; Forestry; Environmental Engineering/Biotechnology

Target groups
Research

Product category
Monograph

Due September 2013

2014. XV, 285 p. 151 illus., 49 in color. (Humanity and the Sea) Hardcover
► * € (D) 106,99 | € (A) 109,99 | sFr 133,50
► € 99,99 | £90.00
ISBN 978-4-431-54528-6

J. Tsukamoto, Nihon University College of Bioresource Sciences, Fujisawa, Japan; M. Kuroki, The University of Tokyo, Tokyo, Japan (Eds)