Chadwick F. Alger
Peace Research and Peacebuilding

This is the third volume to commemorate the 90th birthday of the distinguished scholar Chadwick F. Alger to honor his lifetime achievement in international relations, as President of the International Studies Association (1978-1979) and as Secretary General of the International Peace Research Association (1984-1987). After a brief introduction by Chad F. Alger this volume presents six of his key texts on Peace Research and Peacebuilding, covering "The Quest for Peace: What are we learning?"

Features
- Author is a distinguished scholar on issues concerning peace research and peace building
- Distinguished researcher for international relations (former president of the ISA)
- Distinguished peace researcher (former secretary general of the IPRA)

Contents

Fields of interest
Environmental Law/Policy/Ecojustice; History of Science; International Relations

Target groups
Research

Discount group
Professional Non-Medical

Due June 2013
2013. 150 p. 10 illus. in color. (SpringerBriefs on Pioneers in Science and Practice / Texts and Protocols, Volume 9) Softcover
➤ $49.99
ISBN 978-3-319-00502-7

Due May 2013
2013. XI, 123 p. 16 illus., 9 in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 7) Softcover
➤ $49.99
ISBN 978-3-319-00508-9

Due July 2013
2014. 150 p. 10 illus. in color. (SpringerBriefs on Pioneers in Science and Practice / Texts and Protocols, Volume 8) Softcover
➤ $49.99
ISBN 978-3-319-00511-9

C. F. Alger, The Ohio State University, Columbus, OH, USA

Chadwick F. Alger
Pioneer in the Study of the Political Process and on NGO Participation in the United Nations

This volume honors the lifetime achievements of distinguished scholar Chadwick F. Alger on the occasion of his 90th birthday. Carolyn Stephenson presents Prof. Alger as a Pioneer in the Study of the Political Process and on NGO Participation in the United Nations. Part 1 offers an autobiographical note and a comprehensive bibliography of his academic publications.

Features
- Author is a pioneer in the Study of the Political Process and on NGO Participation in the United Nations
- Distinguished researcher for international relations (former president of the ISA)
- Distinguished peace researcher (former secretary general of the IPRA)

Contents

Fields of interest
Environmental Law/Policy/Ecojustice; History of Science; International Relations

Target groups
Research

Discount group
Professional Non-Medical

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➤ $49.99
ISBN 978-3-319-00511-9

C. F. Alger, The Ohio State University, Columbus, OH, USA

Chadwick F. Alger
The UN System and Cities in Global Governance

This is the second volume to commemorate the 90th birthday of the distinguished scholar Chadwick F. Alger to honor his lifetime achievement in international relations and as President of the International Studies Association (1978-1979). After a brief introduction by Chad F. Alger this volume presents six of his key texts on Peace Research and Peacebuilding, covering "The Quest for Peace: What are we learning?"

Features
- The author made major contributions on peace research and peace building
- Distinguished researcher for international relations (former president of the ISA)
- Distinguished peace researcher (former secretary general of the IPRA)

Contents

Fields of interest
Environmental Law/Policy/Ecojustice; History of Science; International Relations

Target groups
Research

Discount group
Professional Non-Medical

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➤ $49.99
ISBN 978-3-319-00502-7

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2013. XI, 123 p. 16 illus., 9 in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 7) Softcover
➤ $49.99
ISBN 978-3-319-00508-9

Due July 2013
2014. 150 p. 10 illus. in color. (SpringerBriefs on Pioneers in Science and Practice / Texts and Protocols, Volume 8) Softcover
➤ $49.99
ISBN 978-3-319-00511-9
Sustainable Food Security in the Era of Local and Global Environmental Change

Contents

Fields of interest
Sustainable Development; Earth System Sciences; Social Sciences, general

Target groups
Research

Discount group
Professional Non-Medical

Developing Geographical Indications in the South

The Southern African Experience

Features
- Provides key theoretical reflections from a five-year process of reviewing the potential of introducing systems to protect geographical identity for certain food and natural products in the Southern African region
- Analyses the TRIPS agreement and the important policy space it has created at national level for countries to decide on appropriate legal and institutional approaches to geographical indication protection
- Shows how the geographical indication instrument itself can be used in highly diverse ways at product level, thus adding to the richness of the instrument
- Helps assess the multifaceted nature of geographical indications proposed as an instrument for strengthening and securing market access and for promoting rural development, and also for conserving biodiversity and indigenous knowledge

Contents

Fields of interest
Environmental Management; Economics/Management Science, general; Law, general

Target groups
Research

Discount group
Professional Non-Medical

Salinity and Drainage in San Joaquin Valley, California

Science, Technology, and Policy

Contents

Fields of interest
Soil Science & Conservation; Environmental Economics; Hydrogeology

Target groups
Research

Discount group
Professional Non-Medical
New Series

Handbook of Global Environmental Pollution

Series editor: P. Brimblecombe, R. Lal, R. Stanley, J. Trevors

The aim of this comprehensive reference is to provide concise, rigorous, scientific information on pollution in all its forms, the consequences of pollution and solutions to pollution. The entries will be structured to allow rapid retrieval of the desired information. For more detailed reading, each entry will be followed by up to 10 references. The individual entries will be written by authorities in the respective area of research to ensure state-of-the-art descriptions. The Encyclopedia will be an invaluable companion for researchers in pollution. Moreover, it will prove useful for individuals working in related professions such as consulting, teaching and risk assessment or for those simply interested in pollution. Content will be available as a set of about 10 print volumes with alphabetically arranged “reviews”. The Encyclopedia aims to include 100/150 topics per subsection include extensive cross-referencing enable the reader to locate the maximum amount of information on a given topic. Each contribution will include 2 or 3 levels of information: Level 1: keywords and an abstract for the “review”, taking approximately half a page. Written by the contributing authors to introduce the subject and provide an overview leading to the main part of the review. Level 2: this is the main article for the topic and will cover the subject in depth. It will be approximately 4 ½ to 6 ½ pages in length. It will contain relevant and necessary details of the recent advances, the future, and knowledge gaps associated with the topic. Level 3: 5 to 10 key references for further study will be provided. This level will be particularly useful for practitioners, but also for senior undergraduates, postgraduates and as advanced study / reference material.

Global Environmental Change

Features
- A unique work for multi-sectorial scientists and practitioners in aquatic ecotoxicology
- Includes an explanatory glossary of terms to help understand ecotoxicology and ecological risk assessment
- Written by experts in key topics of modern aquatic ecotoxicology

Contents
1. Global Change and Climate
2. Global Change and Oceans
3. Global Change and Freshwater Ecosystems
4. Global Change and Terrestrial Ecosystems
5. Urban Atmospheres
6. Global Change and Sustainable Development
7. Global Change and Human Health
8. Global Change and Food Supply
9. Global Change and Natural Resources
10. Greenhouse Gases and Geoenvironment
11. Social Aspects of Global Change

Field of interest
Pollution, general

Target groups
Research

Discount group
Professional Non-Medical

Due March 2014
Print
2014. XX, 980 p. (Handbook of Global Environmental Pollution.)
► approx. $549.00
ISBN 978-94-007-5783-7

eReference
2014.
► approx. $549.00
ISBN 978-94-007-5784-4

Print + eReference
2014. XX, 980 p. (Handbook of Global Environmental Pollution)
► approx. $689.00
ISBN 978-94-007-5785-1

Sustainable Transport Studies in Asia

This book aims to provide a good understanding of and perspective on sustainable transport in Asia by focusing on economic, environmental, and social sustainability. It is widely acknowledged that the current situation and trends in transport are not always sustainable in Asia, due to part to the fast-growing economy and the astounding speed of urbanization as well as least-mature governance.

Features
- Presents sustainable transport in a specifically Asian context
- Considers economic, environmental, and social sustainability
- Covers more than Asian cities, making the book truly representative of Asia

Contents
Evaluating Sustainability of Urban Development in Asia
- Systematic and Behavior-oriented Approaches for Sustainable Urban and Transport Policies
- Comprehensive Travel Demand Analysis in Asian Developing Megacities
- Integrated Policy Analysis of Sustainable Urban and Transportation Development
- Interregional Tourism Demand and Destination Management
- Paratransit-adaptive Transportation Policies for Transition to Sustainability in Developing Countries
- Tourist Behavior Analysis for Sustainable Tourism Policy
- Taxation Policies for Promoting Fuel-efficient Vehicle Ownership and Use
- Household Energy Consumption Behavior Across the Residential and Transport Sectors
- ICT-based Traffic Safety Measures and Drivers’ Responses
- Uncertainty in Travel Behavior

Fields of interest
Sustainable Development; Economic Geography; Transportation

Target groups
Research

Discount group
Professional Non-Medical

Due June 2013
Print + eReference
2013. XII, 308 p. 82 illus., 50 in color. (Lecture Notes in Mobility) Hardcover
► $129.00
ISBN 978-4-431-54378-7

Due June 2013
Print + eReference
2013. XII, 308 p. 82 illus., 50 in color. (Lecture Notes in Mobility) Hardcover
► $129.00
ISBN 978-4-431-54378-7
Environmental Sciences

M. Fulekar, B. Pathak, Central University of Gujarat, India; R. K. Kale, School of Environment and Sustainable Development, Gujarat, India (Eds)

Environment and Sustainable Development

Features
► The book gives current research in the treatment of all kinds of waste ► The book describes the emerging technologies like environmental biotechnology and nanotechnology ► The content provides holistic solutions for sustainable development ► Green technology is given emphasis as it is an emerging area in addressing environment concerns

Contents

Fields of interest
Environment, general; Sustainable Development; Environmental Engineering/Biotechnology

Target groups
Research

Discount group
Professional Non-Medical

J. Galtung, Versonnex, France; D. Fischer, Basel, Switzerland

Johan Galtung
Pioneer of Peace Research

This is the first ever anthology of key articles by Johan Galtung, widely regarded as the founder of the academic discipline of peace studies. It covers such concepts as direct, structural and cultural violence; theories of conflict, development, civilization and peace; peaceful conflict transformation; peace education; mediation; reconciliation; a life-sustaining economy; macro-history; deep culture and deep structure; and social science methodology. Galtung has contributed original research, concepts and theories to more than 20 social science disciplines, including sociology, international relations and future studies, and has also applied his new insights in practice. The book is a valuable resource for researchers and practitioners, and can serve as a supplemental textbook for graduate and upper undergraduate courses in peace studies and related fields.

Features
► It contains groundbreaking texts from the founder of this unique academic discipline ► It addresses an important field, peace studies (As Willy Brandt pointed out, "Peace is not everything, but without peace, everything is nothing") ► It includes some of the most important contributions from Galtung’s 160 books and over 1600 articles

Fields of interest
Environmental Law/Policy/Ecojustice; History of Science

Target groups
Research

Discount group
Professional Non-Medical

Due July 2013

2014. Approx. 250 p. 35 illus., 18 in color. Hardcover ► $129.00

Due May 2013

2013. VIII, 158 p. 18 illus., 12 in color. (SpringerBriefs on Pioneers in Science and Practice, Volume 5) Softcover ► $49.99
ISBN 978-3-642-32480-2

Due January 2014

2014. 300 p. (EcoProduction) Hardcover ► approx. $139.00
ISBN 978-3-642-33934-9

P. Golinski, Poznan University of Technology, Poland; A. Kawa, Poznan University of Economics, Poland (Eds)

Technology Management for Sustainable Production and Logistics

Innovative technologies provide opportunities for making manufacturing and logistics operations cleaner and more resource-efficient. New technologies focus on lifecycle engineering and lifecycle management. This book will be valuable to both academics and practitioners who wish to deepen their knowledge of technology management. The book will cover technical, organizational, financial and social issues connected to the implementation of more sustainable technologies.

Features
► Includes case studies from different sectors ► Offers guidance on the technical and non-technical aspects of implementing new sustainable technologies ► Highlights the main problems that arise in the introduction of new technologies

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

Target groups
Research

Discount group
Professional Non-Medical
New Series
SpringerBriefs in Environment, Security, Development and Peace

Series editor: H. G. Brauch

This peer-reviewed book series addresses topics in four major research programmes in the social and political sciences and in international relations: a) environmental studies or ecology; b) international, national and human security studies; c) development studies; and d) peace studies or peace research; and the six dyadic conceptual relationships between them: i) peace and security; ii) peace and environment; iii) development and security; iv) environment and development (sustainable development); v) development and security; and vi) environment and security. These four key concepts and the six dyadic conceptual relationships address significant issues in international politics and in international relations but also in many other disciplines in the social and natural sciences. The SpringerBriefs in Environment, Security, Development and Peace (ESDP) address the linkages across disciplines, and the editor welcomes book proposals and completed manuscripts by natural and social scientists, as well as by multidisciplinary teams of authors. The material may address issues of global change and its impacts on humankind, on environmentally-induced migration, on crises and conflicts, as well as proposing cooperative strategies to cope with these challenges either locally or in the frame-work of international organizations and regimes. These SpringerBriefs present concise summaries of cutting-edge research and innovative policy perspectives. The series focuses on the interconnection of the new and non-traditional global environmental and development challenges that face humankind and that may pose dangers to peace and security in the Anthropocene era of earth history. SpringerBriefs in ESDP publish short monographs and edited volumes of workshops that are peer-reviewed by scholars from many disciplines and from all parts of the world. These SpringerBriefs will give more voice and visibility to scientists and innovative political thinkers in developing countries. SpringerBriefs in ESDP provide multidisciplinary knowledge relevant for coping with the numerous projected impacts of global environmental change, political, economic and cultural crises and conflicts. They offer Timely state-of-the-art analyses (e.g. of earth systems science, geocology) and policy assessments of the global challenges facing humankind in the 21st century. Bridges between new research results with snapshots of hot and/or emerging topics, literature reviews and in-depth case studies.

E. A. Gencer, ARC pc, New York, NY, USA

The Interplay between Urban Development, Vulnerability, and Risk Management

A Case Study of the Istanbul Metropolitan Area

Natural disasters are increasingly affecting the world, taking lives unexpectedly and leaving many others injured and homeless. Moreover, disasters disrupt local, national and even global economies, instantly changing the direction of development. In the first half of 2011 alone, 108 natural disasters occurred, killing over 23 thousand people, affecting nearly 44 million others and causing more than 235 billion US dollars of economic damages (CRED 2011). Large urban settlements have become increasingly vulnerable to the impacts of natural disasters. The concentration of standard infrastructure and housing, material assets, and inherent socio-economic inequalities increase vulnerability to disasters in large urban areas, especially in developing countries. The size, number, functions, and geographical distribution of large- and megacities create a special concern for disaster risk. Good urban management practices can be a powerful catalyst for reducing losses from natural disasters, while simultaneously helping to develop a sustainable environment.

Contents

Fields of interest
Environmental Law/Policy/Ecojustice; Natural Hazards; Landscape/Regional and Urban Planning

Target groups
Research

Discount group
Professional Non-Medical

Due May 2013

$49.99
ISBN 978-3-642-29469-3

P. Golinska, Poznan University of Technology, Poland

Materials Management Model for Remanufacturing

The present customer consumption models with short product lifecycles result in an increasing number of used products that need to be collected and reused or disposed. Both legal regulations and consumer concerns regarding these issues have led companies to include reverse material flows in their logistics operations. Materials management for remanufacturing purposes is more complex than in traditional manufacturing, primarily because of the inherent uncertainty in the timing, quality and quantity of returns. Moreover, when returns are not appropriate for reuse they have to be substituted with raw materials. Many companies face difficulties in the management of materials flows due to the fact that reverse flows have different characteristics than raw material flows. This book proposes a method/model for improving material flows management in remanufacturing activities.

Features
► Offers advice on how to limit the uncertainty in materials management ► Offers guidelines for materials management in remanufacturing facilities ► Highlights the main problems that arise in materials management in remanufacturing companies

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

Target groups
Research

Discount group
Professional Non-Medical

Due February 2014

2014. 220 p. (EcoProduction) Hardcover
$139.00
ISBN 978-3-642-33853-3
S. I. Huq, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka, Bangladesh; J. U. Shaib, Soil Resource Development Institute (SRDI), Dhaka, Bangladesh

**The Soils of Bangladesh**

This book presents a comprehensive overview of the soils of Bangladesh. It is compiled by authors with vast experience in soil related problems and potential mitigation approaches. It discusses the development of Soil Science as an individual discipline in a country with limited resources and where soil plays a pivotal role for the economy; the formation of different agro-climatic regions; and the effects of human-induced soil degradation and climatic change on its soils, geology and geomorphology and major soil types. It examines 'problem soils' and how they are managed, the scenario of soil fertility status, and land and crop management, as well as focusing on the future soils.

**Contents**


**Field of interest**

Soil Science & Conservation

**Target groups**

Research

**Discount group**

Professional Non-Medical

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H. Imura, Yokohama City University, Yokohama, Japan

**Environmental Issues in China Today**

A View from Japan

Economic development and environmental issues in China are attracting more and more attention internationally as the country's large population and vast demands for food, energy, water, minerals, and other resources play an increasingly important role in deciding the fate of the world. There is great interest in learning more about environmental issues in China, but it is not easy to obtain accurate, relevant information because the issues are diverse and are complex phenomena resulting from the interconnections among natural resource constraints and political, social, and institutional systems.

**Features**

- Provides information about the diverse dimensions of environmental issues in China for an understanding of their causes and effects.
- Presents a holistic picture of what is happening in China as a result of its rapid economic growth.
- Helps students as well as businesspeople and policy makers understand how to deal with the resource-hungry economic giant that China is becoming.

**Contents**

1. Environmental Problems: Borderless.
5. Air Pollution: Many Impacts.

**Fields of interest**

Monitoring/Environmental Analysis; Earth System Sciences; Environmental Economics

**Target groups**

Research

**Discount group**

Professional Non-Medical

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V. Mega, Brussels, Belgium

**Quintessential Cities, Accountable to the Future**

Sustainability, Innovation and Citizenship

This book can be seen as the third part of an unofficial trilogy on Sustainable Cities of the Future with the author's previous books 'Sustainable Development, Energy and the City' and 'Sustainable Cities for the third millennium: The Odyssey of urban excellence', both prefaced by Prof. Sir Peter Hall. All three books follow the evolving forefront of innovations towards Sustainable Cities. They collectively try to respond to the questions: What future cities wish to build (with their scarcities and capacities) on a finite planet?

**Features**

- Suggests that citizenship and innovation are the most important elements for the cities to lead the civilisation of sustainability.
- Advocates for the creation of a strategic global UrbanPedia and sheds light on exemplary world strategic partnerships on cities.
- Covers the global outlook of the challenges facing cities today.

**Contents**

Insights from the Future: Trends, Risks and Opportunities.
- Human Ecosystems in a resource scarce World.
- Cities Ahead of the Energy Transition.
- Reinventing Smart, Green and Inclusive Mobility in Cities.
- Pioneer Cities in the Creative Sustainable Economy.
- Intergenerational Cities Embracing Diversity and Social Justice.
- Cities of Education, Knowledge and Innovation, Culture and the Arts.
- Sustainable Regeneration and Enlightenment.
- The Civic Bond: Cities for and With Citizens.
- Co-designing Fair Cities for the Next Generations.
- European Cities and Interconnected World Experiences.

**Field of interest**

Sustainable Development; Landscape/Regional and Urban Planning; Economic Geography

**Target groups**

Research

**Discount group**

Professional Non-Medical

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Due June 2013

2013. XII, 242 p. 58 illus., 57 in color. (World Soils Book Series, 1) Hardcover

- $129.00

ISBN 978-94-007-1127-3

Due June 2013

2013. XII, 130 p. 11 illus., 7 in color. (Advances in Asian Human-Environmental Research) Hardcover

- $129.00

ISBN 978-4-431-54119-6

Due June 2013

2013. XXVIII, 286 p. Hardcover

- $129.00

New Series
Environmental Challenges and Solutions
Series editor: R. J. Cabin

The Environmental Challenges and Solutions series aims to improve our understanding of the Earth’s most important environmental challenges, and how we might more effectively solve or at least mitigate these challenges. Books in this series focus on environmental challenges and solutions in particular geographic regions ranging from small to large spatial scales. These books provide multidisciplinary (technical, socioeconomic, political, etc.) analyses of their environmental challenges and the effectiveness of past and present efforts to address them. They conclude by offering holistic recommendations for more effectively solving these challenges now and into the future. All books are written in a concise and readable style, making them suitable for both specialists and non-specialists starting at first year graduate level. Proposals for the book series can be sent to the Series Editor, Robert J. Cabin, at cabinrj@brevard.edu.

C. F. Jordan, University of Georgia, Athens, GA, USA
An Ecosystem Approach to Sustainable Agriculture
Energy Use Efficiency in the American South
Modern industrial agriculture is not sustainable because of its heavy reliance on petroleum, a non-renewable source of the energy used in farming, and because of pollution caused by petroleum products such as fertilizers and pesticides. A systems analysis of farming suggests that agriculture will be more sustainable when services of nature, such as nutrient recycling by soil micro-organisms and natural controls of insects, replace the services now provided by energy from petroleum. Examples are drawn from the Southeastern USA, but lessons learned can be applied worldwide.

Features
► Takes a systems (holistic) approach to sustainable agriculture ► Lessons learned from this region can be applied worldwide ► Applied tools and practices for sustainable agriculture are described ► Provides rich historical background ► Illustrates the energy use efficiency when substituting services of nature for non-renewable energy sources

Contents

Fields of interest
Sustainable Development; Agriculture; Environmental Management

Target groups
Graduate

Discount group
Professional Non-Medical

Due June 2013
2013. X, 247 p. 36 illus., 29 in color. (Environmental Challenges and Solutions, Volume 1) Hardcover
► $129.00
ISBN 978-94-007-6789-8

D. Priour, Ifremer, Plouzané, France
A Finite Element Method for Netting
Application to fish cages and fishing gear
This book fully describes a finite element method for netting. That describes the relation between forces and deformation of the netting. That takes into account forces due to the twine elasticity, the hydrodynamic forces, the catch effect, the mesh opening stiffness. This book is divided in 5 parts. The first section contains introduction on the finite element method, the second part is about equilibrium calculation, the third presents a triangular element for netting, the fourth and fifth are for cable and node element. The sixth presents few validation cases.

Features
► A much needed complete overview on finite element method for netting structures ► Groups together and documents all main matter on the finite element method ► Includes clear examples and is richly illustrated

Contents

Fields of interest
Marine & Freshwater Sciences; Environmental Science and Engineering; Computational Science and Engineering

Target groups
Research

Discount group
Professional Non-Medical

Due June 2013
2013. X, 120 p. 69 illus., 57 in color. (SpringerBriefs in Environmental Science) Softcover
► $49.99
ISBN 978-94-007-6843-7
New Series

Environmental Chemistry for a Sustainable World

Series editors: E. Lichtfouse, J. Schwarzbauer, D. Robert

Environmental chemistry is a fast developing science aimed at deciphering fundamental mechanisms ruling the behaviour of pollutants in ecosystems. Applying this knowledge to current environmental issues leads to the remediation of environmental media, and to new, low energy, low emission, sustainable processes. The topics that would be covered in this series, but not limited to, are major achievements of environmental chemistry for sustainable development such as nanotech applications; biofuels, solar and alternative energies; pollutants in air, water, soil and food; greenhouse gases; radioactive pollutants; endocrine disruptors and other pharmaceuticals; pollutant archives; ecotoxicology and health risk; pollutant remediation; geoengineering; green chemistry; contributions bridging unexpectedly far disciplines such as environmental chemistry and social sciences; and participatory research with end users. The books series will encompass all scientific aspects of environmental chemistry through a multidisciplinary approach.

1. Environmental Engineering/Biotechnology
2. Waste Management/Waste Technology
3. Pollution, general
4. Atmospheric Protection
5. Air Quality Control/Air Pollution
6. Analytical Chemistry
7. Agriculture
8. Building Types and Functions
9. Climate Change
10. Ecosystems
11. Ecotoxicology
12. Geochemistry
13. Nanochemistry
14. Nanotechnology and Microengineering
15. Social Sciences

The aim of the series is to publish 2 to 4 books per year. Audience Academic/Corporate/Research
16. Hospital Libraries 20% Practitioners / Professionals 30% Scientists / Researchers 10% Lecturers/Tutors 20% Graduates 20% Type of books (edited volumes, monographs, proceedings, textbooks, etc.) Edited volumes List of subject areas the series will cover:

- Analytical chemistry, novel methods
- Biofuels, alternative energies
- Biogeochemistry
- Carbon cycle and sequestration
- Climate change, greenhouse gases
- Ecotoxicology and risk assessment
- Environmental chemistry and the society
- Genomics and environmental chemistry
- Geoengineering
- Green chemistry
- Health and environmental chemistry
- Internet and environmental chemistry
- Nanotechnologies
- Novel concepts in environmental chemistry
- Organic pollutants, endocrine disruptors
- Participatory research with end users
- Pesticides
- Pollution of water, soils, air and food
- Radioactive pollutants
- Remediation technologies
- Waste treatment and recycling
- Toxic metals

E. Lichtfouse, INRA, Dijon, France; J. Schwarzbauer, RWTH, Aachen University, Germany; D. Robert, Université de Lorraine, Saint-Avold, France (Eds)

Green Materials for Energy, Products and Depollution

Using renewable fuels and materials, drinking clean water and food, and breathing safe air are major issues for a sustainable world. This book reviews biodiesel production from microalgae, a promising energy source that does not compete with food production. Several advanced techniques to clean polluted waters, such as electrochemistry, ferrites photocatalysis and low-cost filtration are presented. Chapters also show various living organisms used as bioindicators of toxic metals. Decreasing ecotoxicity of pesticides using suitable surfactants is reviewed.

Features
- Describes the production of biofuel from microalgae
- Includes new efficient methods to clean wastewater
- Reviews natural dyes and antimicrobials for textiles and surfactants in agriculture
- Discusses electrochemistry and water pollution

Contents

Fields of interest
Environmental Chemistry; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution / Climate Change

Target groups
Research

Discount group
Professional Non-Medical

Due June 2013
2013. XII, 500 p. 72 illus., 25 in color. (Environmental Chemistry for a Sustainable World, Volume 3) Hardcover
- $179.00

M. Quader Mirza, University of Toronto, ON, Canada

Climate Change and the Canadian Energy Sector
Vulnerability, Impact and Adaptation

This book will provide:
- The most updated information on the Canadian energy resources, demand, supply and future projections;
- Updated information on historical climates, climate variability and change in Canada;
- Climate and energy demand and supply relationship;
- Assessments of impacts of past and future climate change, variability and extremes on various components of the energy sector; seasonal energy demand;
- The results of vulnerability and adaptation analysis of case studies of extreme weather events, energy generation and supply;
- Sustainable energy development under a climate change regime;
- Adaptation measures and strategies to meet the challenges of future climate change and associated sea level rise;
- Constraints and opportunities;
- Mainstreaming adaptation into the Canadian energy development policies.

Features
- Thorough description of the main culprit of climate change
- Of interest to a diverse audience, from academics to policy makers
- Discusses climate adaptation measures, which is of increasing interest to academia and policy makers

Fields of interest
Climate Change; Climate Change Impacts; Renewable and Green Energy

Target groups
Research

Discount group
Professional Non-Medical

Due April 2013
2013. 225 p. Hardcover
- approx. $139.00
ISBN 978-3-540-75379-7
R. Sauerborn, V. R. Louis, University of Heidelberg, Germany (Eds)

Global Environmental Change and Infectious Diseases
Impacts and Adaption Strategies

This book examines how man-made global environmental changes may affect infectious diseases. The authors look at six major global changes: climate change, the thinning of the ozone layer, soil degradation and changes in land use, water scarcity, loss of biodiversity and a degradation of ecosystems of the oceans. This holistic view of the impact of GEC is welcome for two reasons: firstly, the drivers of GEC interact and their effects are therefore difficult to separate and secondly, up until now the literature has focused on single driver views, particularly on the relationship between climate change and health. Mankind is not portrayed as passively enduring the consequences of its own behavior, but rather as perpetrator, victim and solver of the problems. Hence, the book also deals with adaptation opportunities and describes specific policy suggestions. Despite its name global change has very different effects locally and there are large differences in the capacity of populations to protect themselves against negative health effects. The authors address inequities both in the environmental disturbances and in the health consequences. To tackle this task the editors have assembled an impressive group of authors from disciplines as diverse as biogeochemistry, geography, earth science, modelling, microbiology, medicine and epidemiology. However, the book remains very readable for a wide audience of teachers, scholars and interested lay people.

Fields of interest
Environmental Health; Infectious Diseases; Tropical Medicine

Target groups
Research

Discount group
Professional Non-Medical

U. Schrader, V. Fricke, TU Berlin, Germany; D. Doyle, Institute of Technology Carlow, Ireland; V. W. Thoresen, University College of Hedmark, Norway (Eds)

Enabling Responsible Living

The book focuses on responsible living as the individual's contribution to sustainable development.

Features
- Multi-cultural aspects of reasonable living \- Holistic perspective on responsible living \- Combination of results by practitioners and researchers
- Well-known experts in this field

Contents

Fields of interest
Sustainable Development; Quality of Life Research; Population Economics

Target groups
Research

Discount group
Professional Non-Medical

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Biological Oceanography of the Baltic Sea

The aim of the book is to provide students and other readers with deeper understanding of the conditions for and the nature of life in the Baltic Sea, as well as to supply knowledge on the functioning of and anthropogenic threats to the Baltic Sea ecosystem. This book is the first comprehensive science-based textbook on life in the Baltic Sea, one of the world's major brackish water bodies. It highlights the special nature of biological variation along the unique environmental gradients of salinity and climate in the Baltic Sea area. The book treats adaptive challenges for life processes and ecosystem functioning resulting from a highly variable recent geological history, geographical isolation and heavy anthropogenic pressure. It describes and explains interactions between organisms and their environment that are central to ecosystem processes such as biogeochemical cycles, speciation and genetic diversity, patterns of species diversity, physiological adaptations, biological invasions and ecotoxicological responses.

Features
- The first comprehensive textbook on Baltic Sea biology and ecology
- Highlights the special nature of biological variation in the Baltic Sea
- Discusses ecosystem-based management

Contents
Comprehensive summary of up-to-date Baltic Sea Biology and ecology.

Fields of interest
Marine & Freshwater Sciences; Ecology; Freshwater & Marine Ecology

Target groups
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Discount group
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