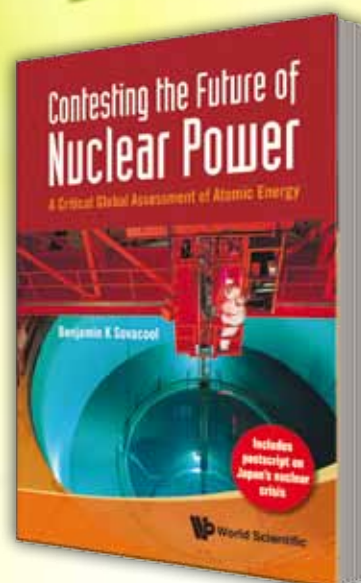
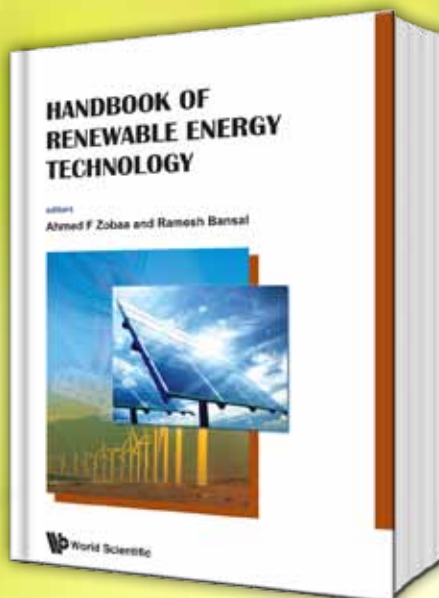
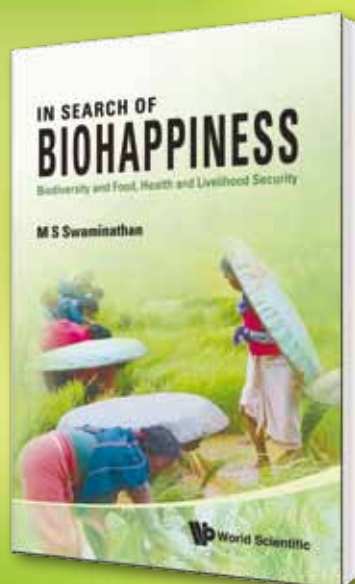


Environmental Science Titles 2012



IN SEARCH OF BIOHAPPINESS

Biodiversity and Food, Health and Livelihood Security

by **M S Swaminathan** (*M S Swaminathan Research Foundation, India*)

This book describes how an era of biohappiness, based on the conservation and sustainable and equitable use of biodiversity, can be launched. It deals with all aspects of conservation such as *in situ*, *ex situ* and community conservation, and also covers conservation issues relating to mangroves and other coastal bioresources, whose importance has grown with the emerging possibility of sea-level rise from global warming.

Readership: Environmentalists and those in the general public interested in the environment and its various aspects such as sustainability, climate change and conservation.

181pp	Mar 2011	
978-981-4329-32-3	US\$88	£55
978-981-4329-33-0(ebook)	US\$114	

HANDBOOK OF RENEWABLE ENERGY TECHNOLOGY

edited by **Ahmed F Zobaa** (*Brunel University, UK*) & **Ramesh C Bansal** (*The University of Queensland, Australia*)

This book, arranged into six sections, highlights various renewable energy based generation technologies, and consists a series of papers written by experts in their respective fields of specialization.

The *Handbook of Renewable Energy Technology* will be of great practical benefit to professionals, scientists and researchers in the relevant industries, and will be of interest to those of the general public wanting to know more about renewable energy technologies.

Readership: Academics and professionals in the energy research field.

876pp	Jan 2011	
978-981-4289-06-1	US\$270	£167
978-981-4289-07-8(ebook)	US\$351	

:: Textbook

CONTESTING THE FUTURE OF NUCLEAR POWER

A Critical Global Assessment of Atomic Energy

by **Benjamin K Sovacool** (*National University of Singapore*)

"The much-vaunted US nuclear renaissance isn't happening. Contesting the Future of Nuclear Power is a must-read book that explains why that's no surprise.

Joseph Romm

Editor of ClimateProgress.org and former US Assistant Secretary of Energy

This book provides a concise but rigorous appraisal about the future of nuclear power and the presumed nuclear renaissance. It does so by assessing the technical, economic, environmental, political, and social risks related to all aspects of the nuclear fuel cycle, from uranium mills and mines to nuclear reactors and spent fuel storage facilities.

Readership: Undergraduate and graduate students in energy policy, environmental studies, science and technology studies, economics and other related courses.

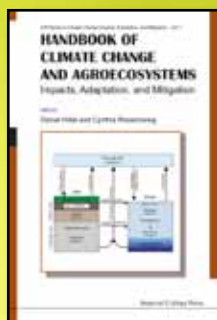
292pp	Apr 2011	
978-981-4322-75-1	US\$70	£46

ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol. 1

HANDBOOK OF CLIMATE CHANGE AND AGROECOSYSTEMS

Impacts, Adaptation, and Mitigation
 edited by **Daniel Hillel & Cynthia Rosenzweig**
 (Columbia University, USA & Goddard Institute for Space Studies, USA)

This handbook presents an exposition of current research on the impacts, adaptation, and mitigation of climate change in relation to agroecosystems. It is offered as the first volume in what is intended to be an ongoing series dedicated to elucidating the interactions of climate change with a broad range of sectors and systems, and to developing and spurring effective responses to this global challenge



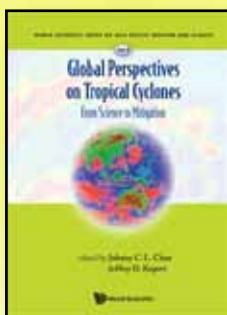
452pp **Sep 2010**
978-1-84816-655-4 **US\$168** **£104**
978-1-84816-656-1(ebook) **US\$218**

World Scientific Series on Asia-Pacific Weather and Climate - Vol. 4

GLOBAL PERSPECTIVES ON TROPICAL CYCLONES

From Science to Mitigation
 edited by **Johnny C L Chan** (City University of Hong Kong, Hong Kong, China) & **Jeffrey D Kepert**
 (Centre for Australian Weather and Climate Research, Australia)

This book is a completely rewritten, updated and expanded new edition of the original *Global Perspectives on Tropical Cyclones* published in 1995. It presents a comprehensive review of the state of science and forecasting of tropical cyclones together with the application of this science to disaster mitigation, hence the tag: *From Science to Mitigation*. The book concludes with an important chapter on disaster mitigation, which is timely given the enormous loss of life in recent tropical cyclone disasters.



Readership: Graduate students and professionals involved in tropical cyclone research and mitigation.

448pp **Apr 2010**
978-981-4293-47-1 **US\$133** **£92**
978-981-4293-48-8(ebook) **US\$173**

CLIMATOLOGY / METEOROLOGY

APPLICABLE ATMOSPHERIC DYNAMICS

Techniques for the Exploration of Atmospheric Dynamics
 by **Istvan Szunyogh** (Texas A&M University, USA)

This book offers an overview of advanced techniques to study atmospheric dynamics by numerical experimentation. It is primarily intended for scientists and graduate students working on interdisciplinary research problems at the intersection of the atmospheric sciences, applied mathematics, statistics and physics. Scientists interested in adopting techniques from the atmospheric sciences to study other complex systems may also find most of the topics covered in the book interesting. The specific techniques covered in the book have either proven or potential value in solving practical problems of atmospheric dynamics.

400pp **Feb 2012**
978-981-4335-69-0 **US\$98** **£61**
978-981-4335-70-6(ebook) **US\$127**

Series on the Science of Climate Change - Vol. 2

MOIST PROCESSES IN THE CLIMATE SYSTEM

A Global Perspective from Earth Observations
 edited by **Graeme L Stephens** (Colorado State University, USA)

The volume deals with the understanding the moist processes that determine the supply of water to the atmosphere and back to the surface. The observations of the distribution and variability of clouds and precipitation has emerged as a priority in Earth observational programs. Our ability to observe the amount of water vapor, and the properties of clouds and precipitation by satellites that presently orbit the Earth is unprecedented in the history of space-borne Earth observations. These new capabilities are now delivering important new insights on how water cycles through the Earth's atmosphere and a firmer basis to predict how this water cycle evolves and thus how it may change with climate change.

Readership: Graduates and postgraduates in environmental science courses; researchers studying climatology and atmospheric changes.

220pp **Oct 2011**
978-1-84816-551-9 **US\$97** **£67**
978-1-84816-553-3(ebook) **US\$126**

World Scientific Series on Asia-Pacific Weather and Climate - Vol. 5

THE GLOBAL MONSOON SYSTEM

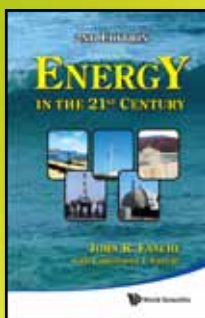
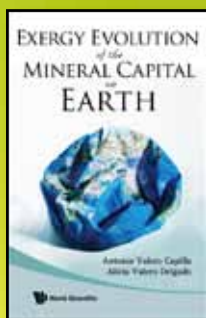
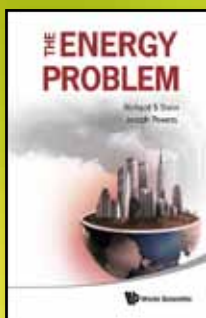
Research and Forecast (2nd Edition)
 edited by **Chih-Pei Chang** (Naval Postgraduate School & National Taiwan University), **Yihui Ding** (Beijing Climate Center), **Ngar-Cheung Lau** (NOAA/GFDL & Princeton University), **Richard H Johnson** (Colorado State University), **Bin Wang** (University of Hawaii) & **Tetsuzo Yasunari** (Nagoya University)

The book builds on the concept that the monsoons in various parts of the globe can be viewed as components of an integrated global monsoon system, while emphasizing that significant region-specific characteristics are present in individual monsoon regions. It is intended to provide an updated comprehensive review of the current status of knowledge, modeling capability, and future directions in the research of monsoon systems around the world.

Readership: Graduate students, academics and researchers in meteorology/climatology, and weather forecasting services.

608pp **Mar 2011**
978-981-4343-40-4 **US\$160** **£104**
978-981-4343-41-1(ebook) **US\$208**





EXERGY EVOLUTION OF THE MINERAL CAPITAL ON EARTH

by **Antonio Valero Capilla & Alicia Valero Delgado** (*University of Zaragoza, Spain*)

This book presents a comprehensive examination of the physical stock and degradation velocity of the Earth's mineral resources. The Earth's mineral resources are analyzed through a revolutionary and novel approach — the exergy approach, which accounts for all physical features of the resources.

Readership: Thermodynamicists, geologists, economists and policy makers.

350pp	Feb 2012	
978-981-4273-93-0	US\$111	£76
978-981-4273-94-7(ebook)	US\$144	

World Scientific Series on Energy and Resource Economics

HISTORICAL ENERGY STATISTICS

Global, Regional and National Trends Since Industrialization
by **T S Gopi Rethinaraj** (*National University of Singapore, Singapore*) & **Clifford E Singer** (*University of Illinois at Urbana-Champaign, USA*)

This essential book presents a comprehensive statistical survey of global and regional energy trends since early industrialization, primarily based on 19th- and 20th-century records from various European and Western Hemisphere sources. A first in its field, this reference volume is an invaluable resource for those working on energy, environment and climate issues.

Readership: Graduate and postgraduate students, researchers, scholars and policy analysts interested in energy issues.

400pp	Jan 2012	
978-981-270-739-0	US\$133	£92
978-981-270-871-7(ebook)	US\$173	

:: Textbook

THE ENERGY PROBLEM

by **Richard S Stein** (*University of Massachusetts, Amherst, USA*) & **Joseph Powers** (*United Technologies Corporation, Stratford, USA*)

This book familiarizes the non-specialist with alternative sources of energy, pointing out their advantages and disadvantages. The appropriate principles of physics and chemistry involved in each alternative will be presented in an easily digestible manner. The book seeks to better inform the public about specific actions that need to be taken in order to better combat energy problems, and reduce climate change.

Readership: Undergraduate/graduate students, academia, researchers and the general public interested in environmental issues and energy conservation.

208pp	Mar 2011	
978-981-4340-31-1	US\$38	£25

ENERGY IN THE 21ST CENTURY (2nd Edition)

by **John R Fanchi** (*Texas Christian University, USA*)

Energy in the 21st Century, in its second edition, examines the energy sources that play a vital role in society today, as well as those that may be the primary energy sources of tomorrow. From our reliance on fossil fuels to the quest for energy independence, and the environmental issues that follow each decision, this book delves into the most prominent energy issues of our time.

Readership: Undergraduates and above, general readers, energy industry professionals, utility industry professionals and environmentalists.

376pp	Oct 2010	
978-981-4322-04-1	US\$120	£74
978-981-4324-54-0(pbk)	US\$58	£36
978-981-4322-05-8(ebook)	US\$156	

MATERIALS FOR SUSTAINABLE ENERGY

A Collection of Peer-Reviewed Research and Review Articles from Nature Publishing Group

edited by **Vincent Dusastre** (*Nature Publishing Group, UK*)

"Real impact in this field will require an integrated approach, from materials to systems, and this collection of papers from researchers impacting materials for energy is a considerable reference. It is an absolutely must-have for serious researchers worldwide."

Eugene T Fitzgerald
Massachusetts Institute of Technology

Readership: Students, professional and chemists, physicists, material scientists, engineers, biomedical scientists and anyone interested in energetic issues.

360pp	Oct 2010	
978-981-4317-64-1	US\$148	£92
978-981-4317-66-5(ebook)	US\$192	

:: Bestseller

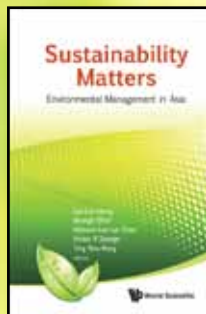
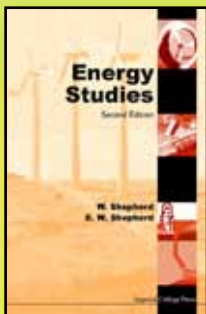
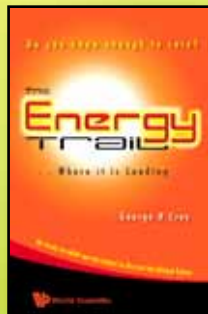
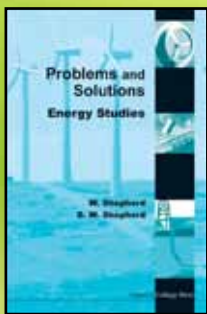
ENERGY, THE ENVIRONMENT AND CLIMATE CHANGE

by **Peter E Hodgson** (*University of Oxford, UK*)

This book is a comprehensive account of all significant energy sources, evaluated according to their capacity, reliability, cost, safety and effects on the environment. Non-renewable sources (for example, coal, oil, gas and nuclear fuel) together with renewable sources like wood, hydro, biomass, wind, solar, geothermal, ocean thermal, and tidal; are considered. Also, nuclear radiations and the disposal of nuclear waste and the future of nuclear power are assessed, as well as pollution and acid rain, the greenhouse effects and climate change.

Readership: Graduate students, academics, practitioners and general public interested in the field of energy research, pollution, meteorology and waste management.

224pp	Mar 2010	
978-1-84816-415-4	US\$99	£66
978-1-84816-417-8(ebook)	US\$129	



:: Bestselling Study Guide

ENERGY STUDIES — PROBLEMS AND SOLUTIONS

by **W Shepherd & D W Shepherd** (University of Bradford, England)

The book examines the environmental implications and economic viability of all fossil and renewable sources, introduces more distant future options of geothermal energy and nuclear fusion, and discusses a near-future energy strategy.

This book is also available as a set with *Energy Studies*.

Readership: Advanced undergraduate and postgraduate students in energy research and environmental education.

292pp **Nov 2008**
978-1-84816-176-4 (pbk) **US\$50** **£35**

:: Bestselling Textbook

ENERGY STUDIES

Second Edition

by **W Shepherd & D W Shepherd** (University of Bradford, England)

Energy Studies — Problems and Solutions, by the same authors as *Energy Studies*, is a natural complement to *Energy Studies*. This book contains solutions to 370 existing and new problems, many with illustrations, and updated Tables of Data on fuel supply.

Readership: Undergraduates, graduate students and researchers.

516pp **Feb 2004**
978-1-86094-322-5 **US\$103** **£68**
This volume come in a set
978-1-84816-405-5 (pbk) **US\$112** **£77**

:: Bestseller

THE ENERGY TRAIL — WHERE IT IS LEADING

Do You Know Enough to Care?

by **George H Croy** (Society of Petroleum Engineers (SPE); South East Asia Petroleum Exploration Society (SEAPEX); Technical Journal Editor (retired) & Freelance Writer)

"This book would be splendid for initiating a debate amongst mature students on, say, an MSc course: it demonstrates the necessity for the long-term success of renewables: it succeeds admirably in describing the ultimate plight of the present oil industry."

Energy Group Newsletter

Readership: General population (from post-secondary students to retirees) ; undergraduates and graduates.

184pp **Oct 2008**
978-981-281-857-7 (pbk) **US\$27** **£15**
978-981-281-858-4 (ebook) **US\$35**

ENVIRONMENTAL EDUCATION

SUSTAINABILITY MATTERS

Environmental Management in Asia

edited by **Lin-Heng Lye, Lai Choo Malone-Lee, Victor R Savage, & Yen-Peng Ting** (National University of Singapore)

This is a compilation of some of the best research papers of students from the MSc (Environmental Management) programme at the National University of Singapore from 2001–2006. They have been edited for brevity and cover a wide range of topics encompassing Corporate Environmental Management, the Conservation of Biological Diversity, Land use Planning, the Marine Environment, the Environment and Economic Development.

652pp **Jul 2010**
978-981-4322-90-4 **US\$138** **£86**
978-981-4322-91-1 (ebook) **US\$179**

ENVIRONMENTAL ENGINEERING

HANDBOOK OF ENVIRONMENT and WASTE MANAGEMENT

Air and Water Pollution Control

edited by **Yung-Tse Hung** (Cleveland State University, USA), **Lawrence K Wang & Nazih K Shammass** (Lenox Institute of Water Technology, USA)

The Handbook of Environment and Waste Management, Volume 1, Air and Water Pollution Control, is a comprehensive compilation of topics that are at the forefront of many technical advances and practices in air and water pollution control.

Readership: Advanced undergraduates and graduate students, academia and researchers in environmental engineering, waste management and applications.

1032pp **Mar 2012**
978-981-4327-69-5 **US\$258** **£170**
978-981-4327-70-1 (ebook) **US\$374**

Lecture Notes Series, Institute for Mathematical Sciences, National University of Singapore - Vol. 21

ENVIRONMENTAL HAZARDS

The Fluid Dynamics and Geophysics of Extreme Events

edited by **H K Moffatt** (University of Cambridge, UK) & **Emily Shuckburgh** (British Antarctic Survey, UK)

The book provides an indepth graduate-level introduction to the fluid dynamics and geophysics of hazards such as tropical cyclones, flooding, atmospheric pollution and tsunamis. It also includes discussion of the possible effects of climate change on these phenomena.

Readership: Graduate students in mathematics, physics or engineering, researchers and professionals.

300pp **Aug 2011**
978-981-4313-28-5 **US\$88** **£61**
978-981-4313-29-2 (ebook) **US\$114**

:: Textbook

BIOTECHNOLOGY FOR ENVIRONMENTAL ENGINEERING

by **Teh Fu Yen** (*University of Southern California, USA*)

A marked departure from other books available on the market which center on one or two specialties, *Biotechnology for Environmental Engineering* focuses on a combination of topics covering biology, microbiology, engineering design and unit operations in technology with a comprehensive introduction to the new technologies and emerging modeling concepts in these fields.

Readership: Senior undergraduates and graduates in environmental engineering.

500pp	Winter 2011	
978-1-84816-511-3	US\$98	£65
978-1-84816-512-0(pbk)	US\$65	£43

WETLANDS FOR TROPICAL APPLICATIONS

Wastewater Treatment by Constructed Wetlands

edited by **Norio Tanaka** (*Saitama University, Japan*), **W J Ng** (*Nanyang Environment & Water Research Institute, Singapore*) & **K B S N Jinadasa** (*Saitama University, Japan*)

This book provides a systematic exposition of the design features of constructed wetlands, and their management (in terms of siting, physical maintenance, and operation). Only very few books (or chapters) have been published on constructed wetlands in tropical conditions and none are current. The selection of plant species, managing their growth and harvesting cycles, and the impact these have on the attenuation of organic and inorganic pollutants, nutrients, and pathogens would be of interest to students and practitioners of the art working under tropical conditions.



Readership: Researchers, academics and professionals in environmental engineering, environmental management, environmental technology, pollution and waste management.

200pp	May 2011	
978-1-84816-297-6	US\$67	£46
978-1-84816-298-3(ebook)	US\$87	



ENVIRONMENTAL ANAEROBIC TECHNOLOGY

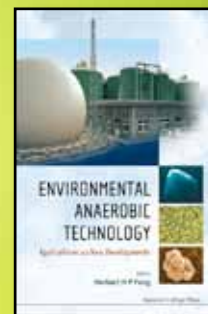
Applications and New Developments

edited by **Herbert H P Fang** (*The University of Hong Kong, Hong Kong*)

Written by 40 renowned experts from 13 countries/regions, this book consists of 18 chapters compiling state-of-the-art information on new developments in various aspects of anaerobic technology. These include development of new types of reactors, uses of molecular techniques for microbial studies and mathematical modeling, productions of bio-hydrogen by fermentation and microbial electrolysis cell, as well as broadening applications to the treatment of municipal wastewater, effluents from chemical industry and agricultural wastes with high lignocellulose content.

Readership: Researchers, practitioners, professionals, postgraduate and graduate students in environmental engineering, environmental biotechnology, environmental management, waste management and pollution control.

420pp	Oct 2010	
978-1-84816-542-7	US\$149	£103
978-1-84816-543-4(ebook)	US\$194	



:: Bestselling Textbook

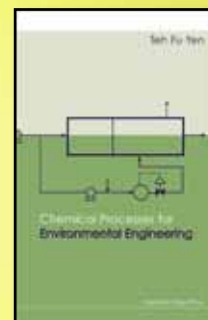
CHEMICAL PROCESSES FOR ENVIRONMENTAL ENGINEERING

by **Teh Fu Yen** (*University of Southern California, USA*)

This book deals with basic principles such as chemical equilibrium and chemical processes, concepts which make up the basic tools necessary to design a more efficient system to solve environmental problems.

Useful as a textbook for both graduate and undergraduate, the material also serves as an excellent source for professional research in the field of environmental engineering or environmental science.

568pp	Feb 2007	
978-1-86094-759-9	US\$137	£90



:: Bestselling Textbook

CHALLENGED EARTH

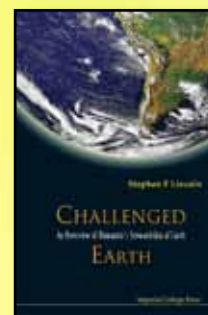
An Overview of Humanity's Stewardship of Earth

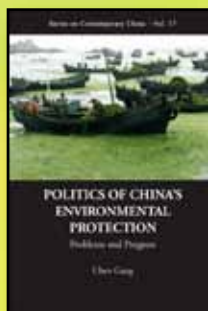
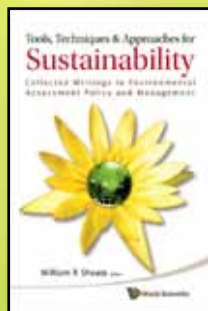
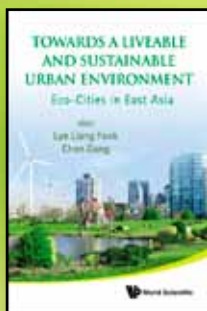
by **Stephen F Lincoln** (*University of Adelaide, Australia*)

This timely book provides a comprehensive insight into the challenges facing humanity and Earth in the 21st century. It opens with a discussion of the domination of all the continents and oceans by a growing human population. This is followed by an appraisal of the extent to which water and food supplies will be able to accommodate this population, which may reach eleven billion by 2100. The book concludes with a discussion of the partial destruction of the ozone layer and the international effort to repair the damage.

Readership: General readers as well as undergraduates, graduate students and professionals in environmental studies and related areas.

548pp	Jan 2006	
978-1-86094-526-7	US\$95	£63





ENVIRONMENTAL MANAGEMENT & PLANNING

TOWARDS A LIVEABLE AND SUSTAINABLE URBAN ENVIRONMENT

Eco-Cities in East Asia

edited by **Liang Fook Lye & Gang Chen** (*East Asian Institute, National University of Singapore*)

This book comprises of papers from a workshop organized by the East Asian Institute on Eco-cities in East Asia on 27 February 2009 in Singapore. Contributed by scholars, officials and environmental specialists from Japan, China, Malaysia, Indonesia, Thailand and the Philippines, the papers focus on how individual governments in these countries undertake eco-city projects. The book also highlights best practices that are useful to policy makers and anyone else who seeks to learn from the experiences of other countries in order to reduce their ecological footprints.

Readership: Urban planners, policy makers, environmentalists, academicians interested in urban sustainability.

232pp	Jun 2010	
978-981-4287-76-0	US\$65	£45
978-981-4287-77-7(ebook)	US\$85	

:: Bestseller

TOOLS, TECHNIQUES AND APPROACHES FOR SUSTAINABILITY

Collected Writings in Environmental Assessment Policy and Management

edited by **William R Sheate** (*Imperial College London, UK & Collingwood Environmental Planning, UK*)

This unique volume brings together key writings from experts drawn from the first ten years of the *Journal of Environmental Assessment Policy and Management (JEAPM)*, launched in 1999 as a forum for encouraging better linkages between environmental assessment and management tools. The book is structured around four themes: The Nature of Tools; The Nature of Decision-Making and Institutional Context; The Nature of Engagement and The Nature of Sustainability.

Readership: Natural scientists, social scientists, engineers, businesses and consultants interested in sustainability.

420pp	Sep 2009	
978-981-4289-68-9	US\$105	£69
978-981-4291-17-0(pbk)	US\$61	£40
978-981-4289-69-6(ebook)	US\$137	

:: Bestseller

Series on Contemporary China - Vol. 17

POLITICS OF CHINA'S ENVIRONMENTAL PROTECTION

Problems and Progress

by **Chen Gang** (*East Asian Institute, National University of Singapore*)

"This book is a good addition to the Contemporary China series, offering another perspective on the challenges China faces in balancing economic development and environmental quality. China's past record is not sustainable, and an alternative paradigm is a must. The book shows clearly the difficulties of the world's most populous country in achieving this balance."

Environmental Health Perspectives

Readership: China watchers, environmentalists, undergraduate and graduate students

200pp	May 2009	
978-981-283-869-8	US\$87	£57
978-981-283-870-4(ebook)	US\$113	

:: Bestseller

ENVIRONMENTAL PLANNING AND MANAGEMENT

by **Christian N Madu** (*Pace University, New York*)

This book focuses on environmental planning and management. Environmental problems are not purely scientific; some of the major problems deal with poor management and the inability to involve people in environmental decision making process. The approach taken in this book is to review environmental problems as they are affected by poor planning and management.

Readership: Professionals in environmental planning, graduate students majoring in environmental sciences.

252pp	Jan 2007	
978-1-86094-671-4	US\$108	£72
978-1-86094-798-8(ebook)	US\$140	

:: Bestselling Study Guide

ENVIRONMENTAL PRINCIPLES AND ETHICS

(with Field Trip Guide)

by **Ming H Wong & Martin K F Fung** (*Hong Kong Baptist University, China*)

This book with the accompanying field trip guide, aims to foster environmental literacy of non-science students and to train them to look at environment-related issues from a critical perspective. With these books, students will obtain knowledge on fundamental environmental ethics and the principles involved. They will be in a position to apply these ethical principles in debates on local and global environment-related issues.

Readership: Academics in the field of environmental science and conservation, governmental departments in Hong Kong, environmental engineers.

232pp	Aug 2006	
978-981-256-838-0(pbk)	US\$78	£51
978-981-277-334-0(ebook)	US\$101	

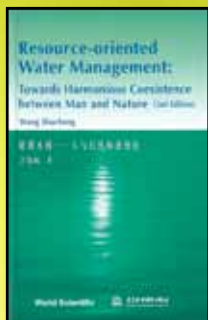
:: Bestseller

RESOURCE-ORIENTED WATER MANAGEMENT (2nd Edition)

Towards Harmonious Coexistence between Man and Nature

by **Wang Shucheng** (*Minister of Water Resources, P R China*)

This book compiles 13 selected addresses and papers on resource-oriented water management by Mr Wang Shucheng, Chinese Minister of Water Resources, from March 1999 to June 2005. In view of the economic and social development in China, as well as the current situation of Chinese water resources, the author proposes China should transit from project-based water management to resources-oriented water management, from traditional water management to modern and sustainable water management.



Readership: Practitioners in water resource development and management.

236pp **Mar 2006**
978-981-256-736-9 **US\$70** **£46**
978-981-279-699-8(ebook) **US\$91**

ENVIRONMENTAL TECHNOLOGY

:: Bestselling Textbook

ENVIRONMENTAL CHEMISTRY: CHEMISTRY OF MAJOR ENVIRONMENTAL CYCLES

by **Teh Fu Yen** (*University of Southern California, USA*)

This book deals comprehensively with the five essential global cycles or environspheres — lithosphere (minerals and energy sources), atmosphere (air), hydrosphere (water), pedosphere (soil), and biosphere (life) — and provides a clear overview of the crucial interaction away them. With the fundamental principles presented clearly and the topics covered in a logical sequence, this book can be used as a textbook of environmental chemistry for the environmental engineering or environmental science major. It can also be used as a reference book for environmental professionals.



640pp **Jul 2005**
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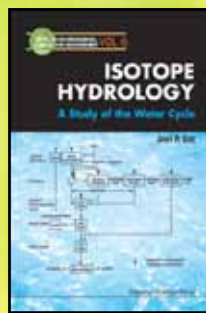
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Readership: Graduate students, researchers and philosophers in the field of seismology, geosciences and continuum mechanics.

300pp **Oct 2011**
978-981-4329-49-1 **US\$90** **£56**
978-981-4329-50-7(ebook) **US\$117**

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by **Haibo Zou** (*University of California, Los Angeles, USA & Auburn University, USA*)

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304pp **Feb 2007**
978-1-86094-646-2 **US\$86** **£52**
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ADVANCES IN DATA-BASED APPROACHES FOR HYDROLOGIC MODELING AND FORECASTING

edited by **Bellie Sivakumar** (*The University of New South Wales, Sydney, Australia & University of California, Davis, USA*) & **Ronny Berndtsson** (*Lund University, Sweden*)

This book comprehensively accounts the advances in data-based approaches for hydrologic modeling and forecasting. Eight major and most popular approaches are selected, with a chapter for each — stochastic methods, parameter estimation techniques, scaling and fractal methods, remote sensing, artificial neural networks, evolutionary computing, wavelets, and nonlinear dynamics and chaos methods.

Readership: Researchers, academics, and professionals in hydrology and civil engineering.

544pp **Aug 2010**
978-981-4307-97-0 **US\$122** **£84**
978-981-4307-98-7(ebook) **US\$159**

Series on Environmental Science and Management - Vol. 6

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by **Joel R Gat** (*Weizmann Institute of Science, Israel*)

This book introduces the rules of the game, by reviewing the natural variability of stable isotopes in the hydrosphere, describing the physico-chemical basis of isotope fractionation, and applying this knowledge to natural waters as they move through the hydrologic cycle from the ocean to the atmosphere, the biosphere and the lithosphere. There is a special focus on the processes at the surface-atmosphere and land-biosphere-atmosphere interfaces, since these are the sites of major changes in isotope composition.

Readership: Graduates in hydrology and environmental science, and water engineers.

200pp **Jan 2010**
978-1-86094-035-4 **US\$48** **£32**
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 GAUGED AND UNGAUGED CATCHMENTS**

by **Thorsten Wagener** (*Pennsylvania State University, USA*), **Howard S Wheater** (*Imperial College London, UK*), & **Hoshin V Gupta** (*University of Arizona, USA*)

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Readership: Graduate students, academics, researchers, practitioners and consultants in hydrology, civil engineering and environmental engineering.

332pp **Sep 2004**
978-1-86094-466-6 **US\$112** **£74**
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OCEANOGRAPHY

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A Conversational, Common Sense Guide to Understanding the Tides

by **James Greig McCully** (Duke University, USA)

"McCully's dissection of the sciences eases the journey and his prose is very readable, even literary at times ... Helpful graphics, both line drawings and color illustrations, make the journey smooth. But it's McCully's knowledge of the subject and writing skills that make it a fun ride."

David Lambert
On Water Media



Finally, someone has written a comprehensive, easily readable explanation of the tides on earth that is both simple enough for students and solid enough for their professors. This volume demystifies the complexity of the tides by systematically examining its many constituents and demonstrates that: "Nature is, at once, awesome in complexity and beautiful in simplicity."

304pp	Jan 2006	
978-981-256-643-0	US\$75	£50
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POLLUTION

Air Pollution Reviews - Vol. 5

INDOOR AIR POLLUTION

edited by **Robert Maynard** (Health Protection Agency, UK), **Paul Harrison** (Cranfield University, UK) & **Isabella Myers** (Imperial College, UK)

The importance of indoor air pollution is increasingly being recognised amongst scientists and policy-makers alike. This book brings together prominent authors in the field of indoor air pollution to provide an authoritative treatise on why indoor air is important and how it can have significant impacts on human health in both developed and developing countries.

Readership: Upper level undergraduates, graduate students and researchers in environmental science, building studies, public health, environmental toxicology and allergy. Also architects, building service (ventilation) engineers, building managers, policy makers and environmental health practitioners.

400pp	Spring 2012	
978-1-84816-493-2	US\$130	£89
978-1-84816-494-9 (ebook)	US\$169	



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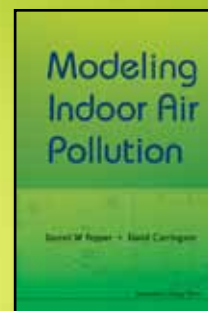
MODELING INDOOR AIR POLLUTION

by **Darrell W Pepper** (University of Nevada, Las Vegas, USA) & **David Carrington** (Los Alamos National Laboratory, USA)

Emission of pollutants and their accumulation due to poor ventilation and air exchange are serious problems currently under investigation by many researchers. Of particular concern are issues involving air quality within buildings.

Readership: Undergraduate and graduate students as well as researchers in areas of anti-terrorism, contaminant dispersion and toxic releases; HVAC community.

360pp	Mar 2009	
978-1-84816-324-9	US\$117	£81
978-1-84816-325-6 (ebook)	US\$152	



WATER MANAGEMENT

:: Bestseller

DRINKING WATER Principles and Practices

by **P J de Moel, J Q J C Verberk** (TU Delft, The Netherlands), & **J C van Dijk** (TU Delft, The Netherlands & Kiwa Water Research, The Netherlands)

This unique volume provides a comprehensive overview of all the major aspects of modern drinking water systems in the western European context. It not only covers the theoretical principles, but also the historical background and practical aspects of design and operation, legislation, planning and finance of drinking water supply in its social and economic context.

Readership: Undergraduates and graduate students is civil and environmental engineering, professionals from the water industry, including government and consultants, general public.

416pp	Nov 2006	
978-981-256-836-6	US\$86	£52
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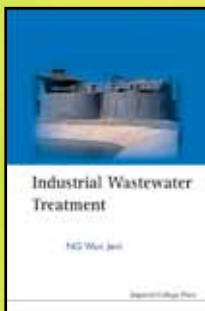
INDUSTRIAL WASTEWATER TREATMENT

by **Ng Wun Jern** (National University of Singapore)

This book adopts a “show and tell” approach to guiding readers in the area of industrial wastewater treatment and the facilities associated with such treatment. It assumes the reader is familiar with wastewater treatment theory but may be unfamiliar with the reasons why certain unit processes or equipment are included in practice, how these work, and why they fail therein.

Readership: Senior undergraduates, graduate students and environmental engineers.

164pp **Jun 2006**
978-1-86094-580-9 **US\$51** **£29**
978-1-86094-664-6(pbk) **US\$31** **£17**



:: Bestseller

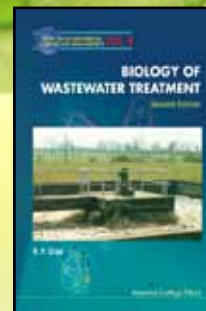
Series on Environmental Science and Management - Vol. 4
BIOLOGY OF WASTEWATER TREATMENT
Second Edition

edited by **N F Gray** (University of Dublin, Ireland)

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Readership: Graduate students in wastewater technology.

1444pp **Apr 2004**
978-1-86094-328-7 **US\$350** **£241**
978-1-86094-332-4(pbk) **US\$211** **£145**
978-1-86094-524-3(ebook) **US\$455**




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<http://www.worldscinet.com/jeapm>

Aims & Scope

The Journal of Environmental Assessment Policy and Management is an interdisciplinary, peer reviewed, international journal covering policy and decision-making relating to environmental assessment (EA) in the broadest sense. Uniquely, its specific aim is to explore the horizontal interactions between assessment and aspects of environmental management (not just the vertical interactions within the broad field of impact assessment) and thereby to identify comprehensive approaches to environmental improvement involving both qualitative and quantitative information. As the concepts associated with sustainable development mature, links between environmental assessment and management systems become all the more essential; their development in isolation and without reference to each other becomes increasingly problematic. The focus of the journal is on law, policy and procedures, covering policy formulation, development and implementation, public participation and the institutional basis for EA. The journal aims to provide a forum for imaginative and creative thinking around the theoretical and empirical foundations of environmental assessment and management.



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Department of Civic Design
University of Liverpool, UK

Climate Change Economics (CCE)

<http://www.worldscinet.com/cce>

Aims & Scope

Climate Change Economics (CCE) publishes theoretical and empirical papers devoted to analyses of mitigation, adaptation, impacts, and other issues related to the policy and management of greenhouse gases. CCE is specifically devoted to papers in economics although it is understood that authors may need to rely on other fields for important insights. The journal is interested in papers examining the issue at every scale from local to global and papers from around the world are encouraged. CCE is also interested in both original research and review papers and welcomes comments discussing previous articles.



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