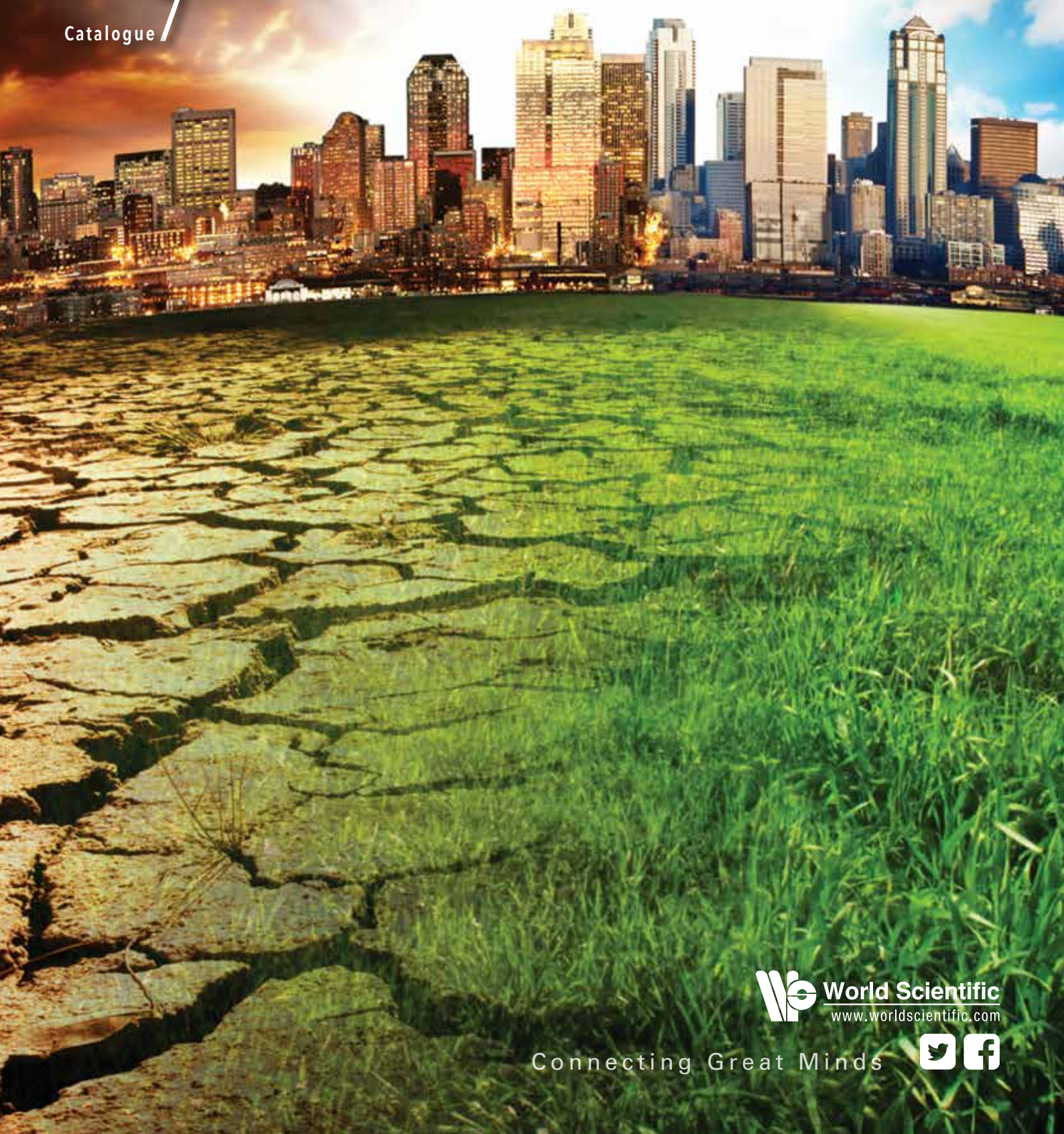


2017

Catalogue

EARTH, ENERGY & ENVIRONMENTAL SCIENCE



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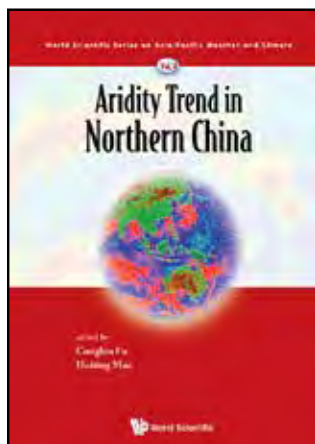
Connecting Great Minds



Highlights

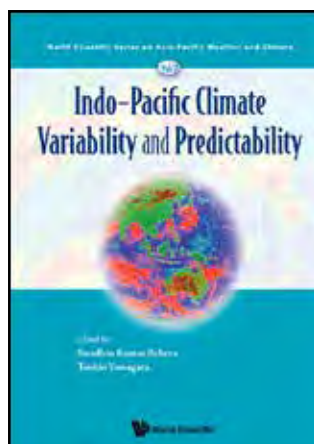
Earth, Energy and Environmental Science 2017

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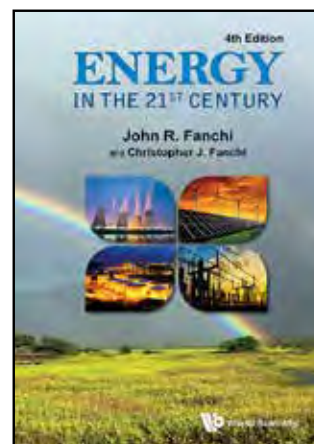
edited by **Congbin Fu** (*Nanjing University, China*) & **Huiting Mao** (*SUNY College of Environmental Science and Forestry, USA*)

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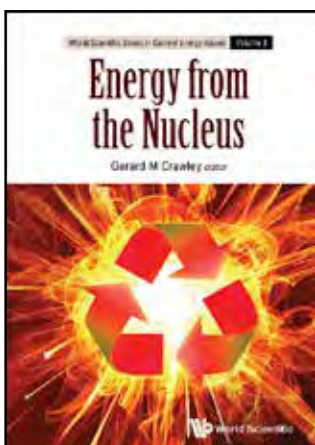
edited by **Swadhin Kumar Behera** & **Toshio Yamagata** (*JAMSTEC, Japan*)

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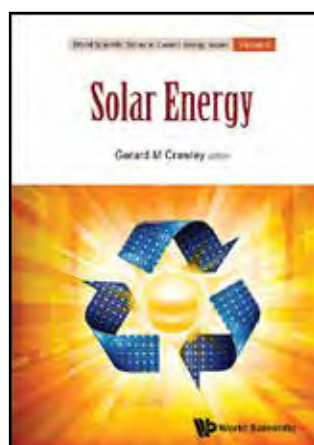
by **John R Fanchi** (*Texas Christian University, USA*) & **Christopher J Fanchi** (*Fanchi Enterprises, USA*)

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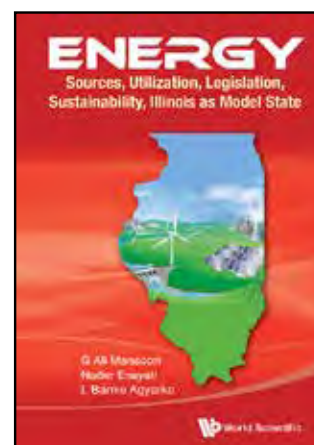
edited by **Gerard M Crawley** (*Marcus Enterprise LLC, USA & University of South Carolina, USA*)

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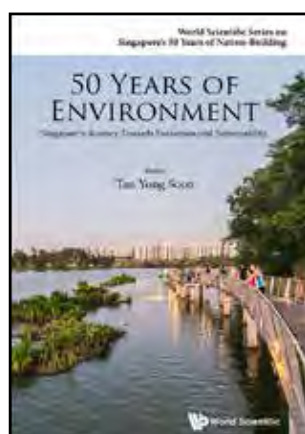
by **G Ali Mansoori** (*University of Illinois at Chicago, USA*) & **Nader Enayati & L Bernie Agyarko**

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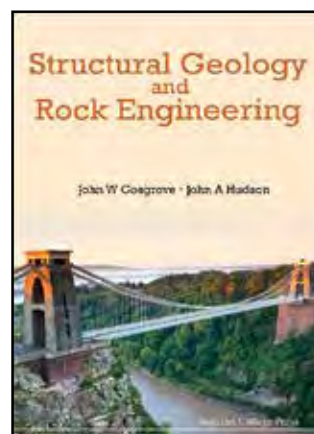
edited by **Peter Brimblecombe** (*City University of Hong Kong, Hong Kong*)

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edited by **Yong Soon Tan** (*Former Permanent Secretary of the Ministry of the Environment and Water Resources, Singapore & Former Permanent Secretary in the National Climate Change Secretariat in the Prime Minister's Office, Singapore*)

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by **John W Cosgrove & John A Hudson** (*Imperial College London, UK*)

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CLIMATOLOGY/METEOROLOGY

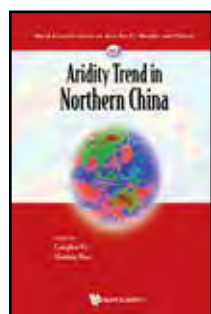
Our Warming Planet

edited by **Cynthia Rosenzweig** (Columbia University, USA & NASA Goddard Institute for Space Studies, USA), **David Rind** (NASA Goddard Institute for Space Studies, USA), **Andrew Lacis** (University of Iowa, USA & NASA Goddard Institute for Space Studies, USA) & **Danielle Peters** (Columbia University, USA)

This title encompasses topics such as natural and anthropogenic climate forcing, climate modeling, radiation, atmospheric dynamics/storms, hydrology, clouds, the cryosphere, paleoclimate, sea level rise, agriculture, atmosphere chemistry, and climate change education. These lectures each provide snapshots of the cutting-edge work being done to understand what may well be the greatest challenge of our time, presented in a form suitable for classroom presentation.

This full-color publication includes lectures with downloadable Power Point slides for students and teachers around the world to be better able to understand various aspects of climate change.

444pp	Dec 2016	
978-981-3148-77-2	US\$98	£71
978-981-3148-78-9(pbk)	US\$48	£35



World Scientific Series on Asia-Pacific Weather and Climate - Vol 8

Aridity Trend in Northern China

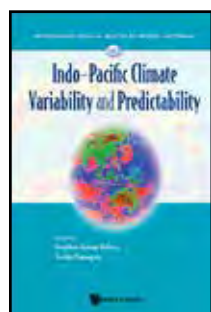
edited by **Congbin Fu** (Nanjing University, China) & **Huiling Mao** (SUNY College of Environmental Science and Forestry, USA)

The continued aridity trend occurring in many regions worldwide is a manifestation of the response of the earth system to global change. It hinders severely the sustainable development of these regions. Northern China is one of the largest and most affected regions

in the world. This book documents the climatic change in its arid and semi-arid areas on decadal to geological time scales based on analyses of various data sources. These analyses improved our understanding of the potential mechanisms driving the aridity trend, particularly in the second half of the 20th century.

Readership: Graduate students, academics and researchers in atmospheric sciences, oceanography, and climate change.

350pp	Oct 2016	
978-981-4723-53-4	US\$138	£99
978-981-4723-54-1(ebook)	US\$179	£129



World Scientific Series on Asia-Pacific Weather and Climate - Vol 7

Indo-Pacific Climate Variability and Predictability

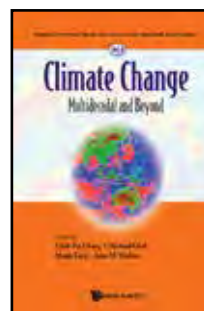
edited by **Swadhin Kumar Behera** & **Toshio Yamagata** (JAMSTEC, Japan)

This book aims to compile some of the important results from the latest research in climate variation and prediction studies with a focus on the role of the ocean, particularly in the Indo-Pacific region. Several new modes of ocean-atmosphere climate variations

have been discovered in the last decade, and the advance of climate models have made it possible to predict some of these modes several seasons ahead. This has improved the society's ability to use model predictions to mitigate climate disaster risks. Leading experts in the field were invited to contribute to this book in order to compile a comprehensive review for the benefit of researchers as well as general readers interested in the subject.

Readership: Graduate students, academics and researchers in atmospheric sciences, oceanography, mathematics, and climate change.

324pp	Feb 2016	
978-981-4696-61-6	US\$118	£85
978-981-4696-62-3(ebook)	US\$153	£111



World Scientific Series on Asia-Pacific Weather and Climate - Vol 6

Climate Change: Multidecadal and Beyond

edited by **Chih-Pei Chang** (National Taiwan University, Taipei & Naval Postgraduate School, Monterey), **Michael Ghil** (Ecole Normale Supérieure, Paris & UCLA), **Mojib Latif** (Helmholtz Centre for Ocean Research, Kiel) & **John M Wallace** (University of Washington, Seattle)

This book focuses on two major challenges in the climate sciences: 1) to describe the decadal-to-centennial variations in instrumental and proxy records; and 2) to distinguish between anthropogenic variations and natural variability. The National Taiwan University invited some of the world's leading experts across the areas of observational analysis, mathematical theory, and modeling to discuss these two issues. The outcome of the meeting is the 23 chapters in this book that review the state of the art in theoretical, observational and modeling research on internal, unforced and externally forced climate variability. The main conclusion of this research is that internal climate variability on decadal and longer time scales is so large that sidestepping it may lead to false estimates of the climate's sensitivity to anthropogenic forcing.

Readership: Graduate students, academics and researchers in atmospheric sciences, oceanography, mathematics, and climate change.

388pp	Oct 2015	
978-981-4579-92-6	US\$118	£85
978-981-4579-93-3(ebook)	US\$153	£111



Series on the Science of Climate Change - Vol 1

Parameterization of Atmospheric Convection (In 2 Volumes)

Volume 1: Theoretical Background and Formulation

Volume 2: Current Issues and New Theories

edited by **Robert S Plant** (University of Reading, UK) & **Jun-Ichi Yano** (CNRM, Météo France, France)

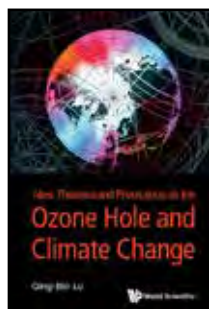
Precipitating atmospheric convection is fundamental to the Earth's weather and climate. It plays a leading role in the heat, moisture and momentum budgets. Appropriate modelling of convection is thus a prerequisite for reliable numerical weather prediction and climate modelling. The current standard approach is to represent it by subgrid-scale convection parameterization.

Parameterization of Atmospheric Convection provides, for the first time, a comprehensive presentation of this important topic. The two-volume set equips readers with a firm grasp of the wide range of important issues, and thorough coverage is given of both the theoretical and practical aspects. This makes the parameterization problem accessible to a wider range of scientists than before. At the same time, by providing a solid bottom-up presentation of convection parameterization, this set is the definitive reference point for atmospheric scientists and modellers working on such problems.

Volume 1 focuses on the basic principles and Volume 2 focuses on the practice, which also leads to some more advanced fundamental issues.

Readership: Atmospheric scientists and modellers.

1172pp	Oct 2015	
978-1-78326-690-6(Set)	US\$354	£255
978-1-78326-691-3(Set)(ebook)	US\$460	£332



New Theories and Predictions on the Ozone Hole and Climate Change

by **Qing-Bin Lu** (University of Waterloo, Canada)

This monograph reviews the establishment of new theories of the ozone hole and global climate change, two major scientific problems of global concern. It provides a comprehensive overview of the author's work including significant discoveries and pioneering contributions, such as the discovery of extremely effective dissociative electron transfer reactions of chlorofluorocarbons (CFCs) adsorbed on ice surfaces and its implications for atmospheric ozone depletion; the proposal of the cosmic-ray-driven electron-induced-reaction (CRE) theory for the ozone hole; the predictions of 11-year cyclic variations in polar ozone loss and stratospheric cooling; the discovery of the nearly perfect linear correlation between CFCs and global surface temperature; the proposal of the CFC theory for modern global warming; the discovery of greenhouse-gas-specific climate sensitivity and the parameter-free calculation of global surface temperature change caused by CFCs; the prediction of global cooling; and so on.

Unlike conventional atmospheric and climate models, the author's theoretical models were established on robust observed data rather than computer simulations with multiple parameters. The new theories have shown the best agreements with the observed data within 10% uncertainties.

Readership: Graduate students in climate science, non-experts and policy makers who wish to have an overview of the sciences behind ozone depletion and global climate change.

308pp	Aug 2015	
978-981-4619-44-8	US\$118	£85
978-981-4619-45-5(ebook)	US\$153	£111



ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol 3

Handbook of Climate Change and Agroecosystems

The Agricultural Model Intercomparison and Improvement Project (AgMIP) Integrated Crop and Economic Assessments — Joint Publication with American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America (In 2 Parts)

edited by **Cynthia Rosenzweig & Daniel Hillel** (Columbia University, USA)

"The volume presents the advances reported in a clear and structured way. In doing so it provides a new benchmark for state-of-the-art coordinated international research into this important topic."

Professor Andy Challinor
University of Leeds

"Top agricultural scientists from around the world have taken up the challenge of sustainable agriculture, with the specific focus on integrating agronomic, climatological, biophysical and socio-economic perspectives and processes. Every chapter (of the Handbook) contributes to addressing the growing food-security challenges facing the world."

Foreword by Jeffrey Sachs,
Director of the Earth Institute at Columbia University

The Agricultural Model Intercomparison and Improvement Project (AgMIP) was developed to evaluate agricultural models and intercompare their ability to predict climate impacts. In sub-Saharan Africa and South Asia, South America and East Asia, AgMIP regional research teams (RRTs) are conducting integrated assessments to improve understanding of agricultural impacts of climate change (including biophysical and economic impacts) at national and regional scales. Other AgMIP initiatives include global gridded modeling, data and information technology (IT) tool development, simulation of crop pests and diseases, site-based crop-climate sensitivity studies, and aggregation and scaling.

Readership: Researchers and graduate students interested in climate change and its effects on agricultural systems.

1160pp	Apr 2015	
978-1-78326-563-3(Set)	US\$445	£294
978-1-78326-564-0(Set)(ebook)	US\$579	£382



:: Bestseller

ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol 2

Handbook of Climate Change and Agroecosystems: Global and Regional Aspects and Implications — Joint Publication with the American Society of

Agronomy, Crop Science Society of America, and Soil Science Society of America

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

The second volume in the ICP Series on Climate Change Impacts, Adaptation, and Mitigation, Handbook of Climate Change and Agroecosystems: Global and Regional Aspects and Implications is published jointly by the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America and Imperial College Press. The ongoing series is dedicated to elucidating the actual and potential impacts of climate change, and to formulating effective responses to this global challenge. It is designed to inform, spur, and integrate the work of leading researchers in the major regions of the world, and to further international cooperation in this crucial field.

320pp	Dec 2012	
978-1-84816-983-8	US\$118	£78
978-1-84816-984-5(ebook)	US\$153	£101



:: Bestseller

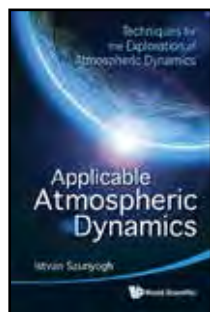
ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol 1

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. As the collective scientific and practical knowledge of the processes and responses involved continues to grow, future volumes in the series will address important aspects of the topic periodically over the coming years.

452pp	Sep 2010	
978-1-84816-655-4	US\$168	£111
978-1-84816-656-1(ebook)	US\$232	£144



Applicable Atmospheric Dynamics

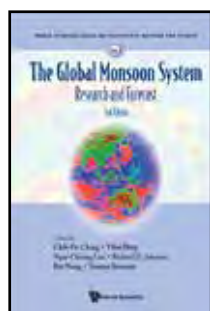
Techniques for the Exploration of Atmospheric Dynamics
by **Istvan Szunyogh** (Texas A&M University, USA)

"The book's content reflects the author's avowed double-edged goal of enhancing the more mathematically-inclined reader's physical insight and introducing the atmospheric scientist to advanced mathematical tools, and the author has made a major contribution to this formidable challenge. Notable features of the book include its attractive and well-researched overviews of the various topics, the often detailed and mathematically rigorous derivations of the salient equations, and its delightful and lucid prose."

Professor Huw C Davies
Professor Emeritus
ETH Zurich

Readership: Researchers and graduate students in the fields of atmospheric sciences, physics, applied mathematics, statistics and scientific computing; academics and industrial researchers working with complex systems.

608pp	Nov 2014	
978-981-4335-69-0	US\$158	£104
978-981-4335-70-6(ebook)	US\$205	£135



:: Bestseller

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

The Global Monsoon System

Research and Forecast
2nd Edition

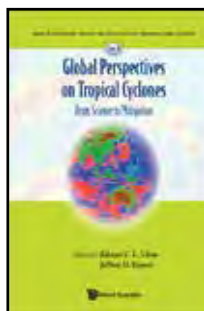
edited by **Chih-Pei Chang** (Naval Postgraduate School & National Taiwan University), **Yihui Ding** (Beijing Climate Center), **Ngar-**

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. The topics covered include all major monsoon regions and time scales (mesoscale, synoptic, intraseasonal, interannual, decadal, and climate change). 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	Apr 2011	
978-981-4343-40-4	US\$178	£117
978-981-4343-41-1(ebook)	US\$231	£152



:: Bestseller

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)

Since the previous volume, enormous progress in understanding tropical cyclones has been achieved. These advances range from the theoretical through to ever more sophisticated computer modeling, all underpinned by a vast and growing range of observations from airborne, space and ocean observation platforms. The growth in observational capability is reflected by the inclusion of three new chapters on this topic. The chapter on the effects of climate change on tropical cyclone activity is also new, and appropriate given the recent intense debate on this issue. The advances in the understanding of tropical cyclones which have led to significant improvements in forecasting track, intensity, rainfall and storm surge, are reviewed in detail over three chapters. For the first time, a chapter on seasonal prediction is included. 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	May 2010	
978-981-4293-47-1	US\$141	£93
978-981-4293-48-8(ebook)	US\$183	£121



:: Bestseller

Climate and Society

Climate as Resource, Climate as Risk

by **Nico Stehr** (Zeppelin Universität, Germany), **Hans von Storch** (GKSS Research Centre, Germany)

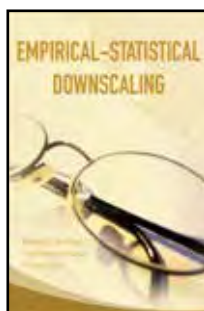
"This volume is informative on several important dimensions, only one of which is disseminating the ten issues constituting the manifesto."

Choice

This book provides an absorbing account of the cultural history of climate and relates it to contemporary scientific knowledge about climate, climate change and its impact.

Readership: Climatologists, social scientists, policymakers and journalists.

152pp	Oct 2009	
978-981-4280-53-2	US\$88	£58
978-981-4280-54-9(ebook)	US\$114	£75



:: Bestselling Textbook

Empirical-Statistical Downscaling

by **Rasmus E Benestad** (The Norwegian Meteorological Institute, Norway), **Inger Hanssen-Bauer** (The Norwegian Meteorological Institute, Norway) & **Deliang Chen** (University of Gothenburg, Sweden)

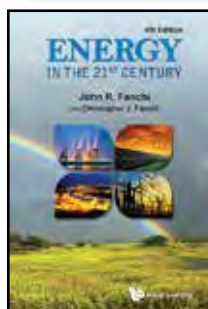
Empirical-statistical downscaling (ESD) is a method for estimating how local climatic variables are affected by large-scale climatic conditions. ESD has been applied to local climate/weather studies for years, but there are few — if any — textbooks on the subject. It is also anticipated that

ESD will become more important and commonplace in the future, as anthropogenic global warming proceeds.

Readership: Graduate students, academics and researchers in the field of climatology, geography and hydrology.

228pp	Sep 2008	
978-981-281-912-3	US\$87	£57

ENERGY STUDIES/RESEARCH



:: Textbook

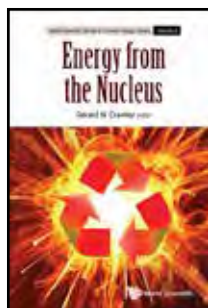
Energy in the 21st Century
4th Edition

 by **John R Fanchi** (Texas Christian University, USA) & **Christopher J Fanchi** (Fanchi Enterprises, USA)

From our reliance on fossil fuels to the quest for new sources of energy, this title provides a fact-based analysis of the most prominent energy issues of our time. The fourth edition updates data and includes more discussion of recent advances. Some of the highlights of the fourth edition are expanded discussion of climate change and anthropogenic climate change; the 2015 COP21 Paris Agreement on Climate Change; nuclear fusion reactor prototypes (tokamak ITER and stellarator W7-X); advances in solar thermal and solar photovoltaic power plants, space based solar power, transparent photovoltaic cells, and hybrid solar wind technology; tidal and wave energy converters; oil from algae; the EU Supergrid; the Goldilocks Policy for energy transition and the Grand Energy Bargain.

Readership: Students, professionals, undergraduates and general public interested in energy studies.

500pp	Sep 2016	
978-981-3144-77-4	US\$115	£83
978-981-3144-78-1 (pbk)	US\$65	£47



World Scientific Series in Current Energy Issues - Vol 3

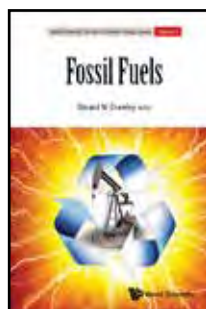
Energy from the Nucleus
The Science and Engineering of Fission and Fusion

 edited by **Gerard M Crawley** (Marcus Enterprise LLC, USA & University of South Carolina, USA)

Energy from the Nucleus focuses on the two main approaches to producing energy from the nucleus: fission and fusion. The chapters on nuclear fission cover the status of current and future generations of reactors as well as new safety requirements and the environmental impact of electricity production from nuclear fission. The chapters on nuclear fusion discuss both inertial confinement fusion and magnetic confinement fusion, including the new international fusion test facility, ITER.

Readership: Students and Professionals interested in/ dealing with Nuclear Engineering; Scientists, Engineers and Policy makers interfacing with Nuclear Engineering and Power.

300pp	Sep 2016	
978-981-4689-19-9	US\$132	£95
978-981-4689-20-5 (ebook)	US\$172	£124



World Scientific Series in Current Energy Issues - Vol 1

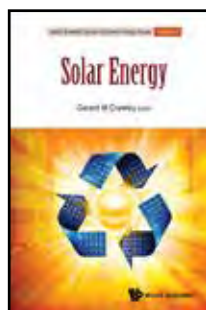
Fossil Fuels
Current Status and Future Directions

 edited by **Gerard M Crawley** (Marcus Enterprise LLC, USA & University of South Carolina, USA)

This volume focuses on the main fossil resources, viz. coal, oil and natural gas. Coal is still an extremely important resource especially for electricity production around the world and the book discussed methods for making coal a cleaner resource, including carbon sequestration. There has been a rapid change in the mix of fossil fuels mainly because of hydraulic fracturing which enables oil and gas to be extracted from previously inaccessible formations. The book describes this changing situation including the precautions required to make the production of these fuels safe and environmentally benign. Alternative fossil fuels such as methane hydrates are also discussed.

Readership: Scientists, engineers, policy makers, graduate students and researchers on the field of energy studies.

400pp	Jul 2016	
978-981-4699-97-6	US\$144	£104
978-981-4699-98-3 (ebook)	US\$187	£135



World Scientific Series in Current Energy Issues - Vol 2

Solar Energy

 edited by **Gerard M Crawley** (Marcus Enterprise LLC, USA & University of South Carolina, USA)

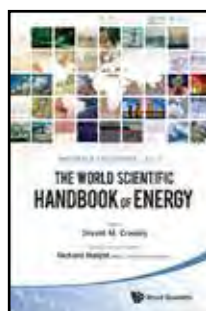
This volume covers a variety of approaches to the use of solar energy. These include large scale photovoltaic production of electricity as well as more local applications in the home and businesses. Similarly, there is an extensive discussion of large scale solar thermal electricity production and smaller scale uses such as solar water heating, home heating and cooling plus crop drying.

There is also discussion of more forward-looking technologies

including the production of fuels using artificial photosynthesis and the production of biomass.

Readership: Researchers, academics, professionals and graduate students in energy studies/ research and environmental/energy economics.

436pp	Jun 2016	
978-981-4689-49-6	US\$162	£117
978-981-4689-50-2 (ebook)	US\$211	£152



:: Bestseller

Materials and Energy - Vol 3

The World Scientific Handbook of Energy

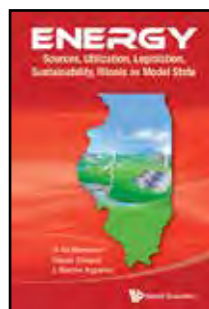
 edited by **Gerard M Crawley** (University of South Carolina, USA)

"The scarcity of energy resources is an especially serious problem. In each chapter of this handbook, representative experts in each area analyze the current status and discuss future prospects, using the most reliable data. I strongly believe that this is the very Handbook we need for an understanding of energy issues."

Akito Arima
 formerly President of Tokyo University and
 Minister of State for Science and Technology, Japan

Readership: Scientists, engineers and policymakers; undergraduates, graduates and researchers in energy studies.

588pp	Mar 2013	
978-981-4343-51-0	US\$149	£98
978-981-4343-52-7 (ebook)	US\$194	£127



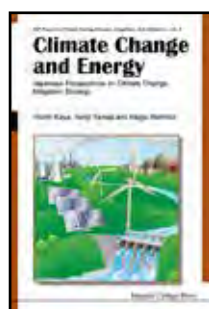
Energy
Sources, Utilization, Legislation,
Sustainability, Illinois as Model State
by **G Ali Mansoori** (University of Illinois
at Chicago, USA), **Nader Enayati** & **L
Barnie Agarko**

This book focuses on energy sources,
utilizations, legislations and sustainability
as it relates to a state, a province, or a
country, or a community within a state.

This book presents various kinds of energy
sources, ways to convert energy for end use, better use of energy
towards conservation and energy- and environmental-sustainability.
As a very proper model-state the authors chose the State of Illinois
which has the largest overall fossil energy reserves, including the
largest strippable bituminous coal reserves; the largest user of nuclear
energy in USA and has also been investing in all kinds of renewable
energies including wind energy, solar energy, biofuels, geothermal
energy, and various energy storage options. In the authors' opinion,
State of Illinois is a pioneer in legislations for proper development
and use of all kinds of energy. Their motivation to do this project
was to educate the public (including students, energy engineers and
planners, as well as state- and country-wide policy makers) about all
aspects of energy.

Readership: Researcher, academics, policy makers, legislators,
environmentalists interested in the field of energy studies.

812pp	Jan 2016	
978-981-4704-00-7	US\$214	£154
978-981-4704-01-4(ebook)	US\$278	£200



ICP Series on Climate Change Impacts,
Adaptation, and Mitigation - Vol 4
Climate Change and Energy
Japanese Perspectives on Climate
Change Mitigation Strategy
by **Yoichi Kaya**, **Kenji Yamaji** & **Keigo
Akimoto** (Research Institute of Innovative
Technology for the Earth, Japan)

Key Features:

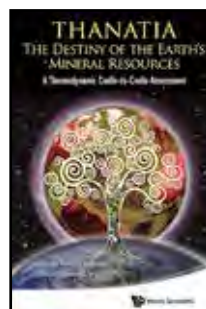
- There are few books for climate
change mitigation

written in English from a Japanese point of view

- The authors are outstanding researchers for climate change
mitigation and energy policies in Japan
- The lead author, Yoichi Kaya, is also well known within the research
society for climate change mitigation in the world as the developer
of the "Kaya-identity", which has often been adopted in several
IPCC reports

Readership: Graduate students, researchers and readers interested in
energy studies and climate change mitigation.

236pp	Jun 2015	
978-1-78326-560-2	US\$119	£86
978-1-78326-561-9(ebook)	US\$155	£112



**Thanatia: The Destiny of the Earth's
Mineral Resources**
A Thermodynamic Cradle-to-Cradle Assessment
by **Antonio Valero Capilla** & **Alicia Valero Delgado**
(CIRCE — Universidad de Zaragoza, Spain)

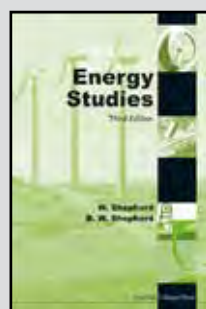
"This is an exhaustive treatment of the subject with
numerous tables of the baseline data and discussions
going from basic thermodynamics to economics and
social sciences. It is an essential read for any scientist
who is concerned with resource evaluation and how
we can best manage these assets and continue to live
on an Earth in which we appreciate the service provided by the resource and
thus avoid Thanatia in defence of Gaia."

John Ludden
Executive Director, British Geological Survey

Readership: Thermodynamicists, geologists, economists, policy makers, and
mining, environmental and chemical engineers.

672pp	Oct 2014	
978-981-4273-93-0	US\$158	£104
978-981-4273-94-7(ebook)	US\$205	£135

BESTSELLING TEXTBOOKS IN ENERGY STUDIES



Energy Studies
3rd Edition

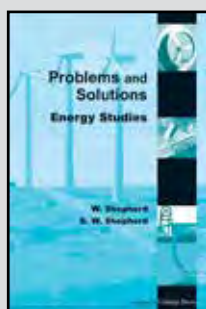
by **W Shepherd** (Formerly University of
Bradford, UK & Ohio University, USA) & **D W
Shepherd** (University of Bradford, UK)

This book considers the various options of
renewable energy, including water energy, wind
energy and biomass, solar thermal and solar
photovoltaic energy. And should the nuclear
option remain open?

The work also 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.

Readership: Undergraduates, graduate students and researchers in energy
research and environmental education.

556pp	May 2014	
978-1-84816-850-3	US\$120	£79



Energy Studies
Problems and Solutions

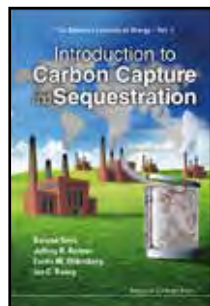
by **W Shepherd** & **D W Shepherd** (University of
Bradford, England)

A natural complement to the book Energy Studies
by the same authors, this book contains solutions
to 370 existing and new problems, many with
illustrations, and updated Tables of Data on fuel
supply.

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

292pp	Nov 2008	
978-1-84816-405-5(Set)(pbk)	US\$143	£95
978-1-84816-176-4(pbk)	US\$50	£33





:: Bestselling Textbook

The Berkeley Lectures on Energy - Vol 1 **Introduction to Carbon Capture and Sequestration**

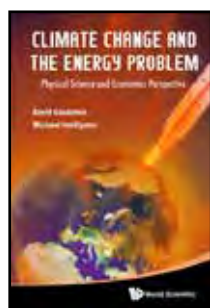
by **Berend Smit, Jeffrey A Reimer** (UC Berkeley, USA),
Curtis M Oldenburg & Ian C Bourg (LBNL, USA)

The aim of the book is to provide an understanding of the current science underpinning Carbon Capture and Sequestration (CCS) and to provide students and interested researchers with sufficient background on the basics of

Chemical Engineering, Material Science, and Geology that they can understand the current state of the art of the research in the field of CCS. In addition, the book provides a comprehensive discussion of the impact of CCS on the energy landscape, society, and climate as these topics govern the success of the science being done in this field.

Readership: Students taking courses on environmental sciences and research level individuals who are interested in environmental issues related to CCS.

596pp	Mar 2014	
978-1-78326-327-1	US\$138	£91
978-1-78326-328-8(pbk)	US\$78	£51
978-1-78326-329-5(ebook)	US\$179	£118



:: Bestselling Textbook

Climate Change and the Energy Problem **Physical Science and Economics Perspective**

by **David Goodstein** (Caltech & UCLA), **Michael Intriligator** (UCLA)

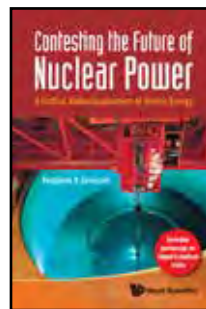
This important compendium deals with the primary world problems of global warming and the coming energy crisis. In alternating chapters, it lays out the nature of the two interrelated problems, and specifies the various economic considerations.

Thus, it describes the coming shortfall of fossil fuel energy in detail and then presents the economic factors governing possible solutions.

Written by two world renowned academics — a physicist who writes about the nature of the problem, and an economist who discusses various scenarios and solutions, this unique must-have book highlights the problem from the point of view of a scientist and an economist.

Readership: Undergraduates, graduates, professionals, academics and the general public interested in energy studies, environmental economics, geophysics and public policy.

104pp	Nov 2012	
978-981-4407-09-0	US\$22	£15



:: Bestselling Textbook

Contesting the Future of Nuclear Power **A Critical Global Assessment of Atomic Energy**

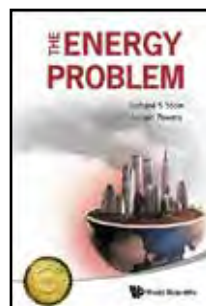
by **Benjamin K Sovacool**
(National University of Singapore, Singapore)

"The book reads easily, requires no background to follow the text, and is informative and well architected. The book is a worthwhile addition to any library with audiences interested in energy-related topics."

CHOICE

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

308pp	May 2011	
978-981-4322-75-1	US\$70	£46



:: Bestselling 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\$40	£26

NOTABLE BACKLIST

HANDBOOK OF RENEWABLE ENERGY TECHNOLOGY
ZOBAA AHMED F ET AL (BRUNEL UNIV, UK)

MATERIALS FOR SUSTAINABLE ENERGY: A COLLECTION OF PEER-REVIEWED RESEARCH AND REVIEW ARTICLES FROM NATURE PUBLISHING GROUP
DUSASTRE VINCENT (NATURE PUBLISHING GROUP, UK)

ENERGY, THE ENVIRONMENT AND CLIMATE CHANGE
HODGSON PETER E (UNIV OF OXFORD, UK)

ENTROPY CRISIS, THE
DEUTSCHER GUY (TEL-AVIV UNIV, ISRAEL)

For more titles and sample chapter:

<http://www.worldscientific.com/page/environsci>



ENVIRONMENTAL EDUCATION

:: Textbook

An Introductory Global CO₂ Model
(with Companion Media Pack)by **Anthony J McHugh** (Lehigh University, USA), **Graham W Griffiths** (City University London, UK) & **William E Schiesser** (Lehigh University, USA)

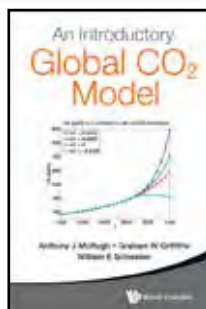
"The book is easy to read and it integrates nicely mathematical modeling, chemistry and numerical simulations. It will serve as an ideal textbook or textbook companion in any course that addresses these topics. I recommend it strongly to all students and teachers in these areas."

Professor Mayer Humi
Worcester Polytechnic Institute**Key Features:**

- A basic model for the global CO₂ problem
- Routines for the model in source code that can be used in a quantitative study

Readership: Students (undergraduate and above) and members of the public interested in/ concerned with long-term environmental change.

232pp	Sep 2015	
978-981-4663-03-8	US\$48	£32



ENVIRONMENTAL ENGINEERING

CO₂ Sequestration by Ex-Situ Mineral Carbonationedited by **Aimaro Sanna** & **Mercedes Maroto-Valer** (Heriot-Watt University, UK)

This book brings together some of the world's leading experts in the field of sequestration to provide a critical assessment of progress to date. Chapters cover the resources available for MC, and also give a critical analysis of the technologies developed for sequestering carbon from industrial and power plants, including the use of the resultant carbonated product. The studies conclude with evaluation of key technical and economic obstacles which need to be addressed for future research, development and application. This is essential reading for engineers, chemists and materials scientists in graduate or research positions, and those interested in sustainability, the environment and ecology.

Readership: Engineers, chemists and materials scientists in graduate or research positions interested in sustainability, the environment and ecology.

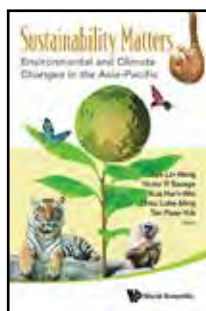
200pp	Jan 2017	
978-1-78634-159-4	US\$85	£61
978-1-78634-160-0(ebook)	US\$111	£79

Sustainability Matters**Environmental and Climate Changes in the Asia-Pacific**
edited by **Lin-Heng Lye**, **Victor R Savage**, **Harn-Wei Kua**, **Loke-Ming Chou** & **Puay-Yok Tan** (NUS, Singapore)

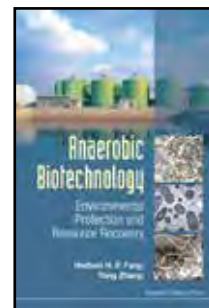
This is a compilation of some of the best research papers by students from the National University of Singapore's multi-disciplinary and inter-disciplinary graduate programme in environmental studies, the M.Sc. in Environmental Management [MEM]. This collection is for the period 2012/2013 and 2013/2014. The papers have been edited for brevity. They analyse the many challenges to effective environmental management covering countries including Bangladesh, Hong Kong, India, Malaysia, Philippines, Singapore and the US. Issues examined include biodiversity conservation, environmental impact assessments, energy, food security, sustainable business practices, public housing, environmental education, and climate change.

Readership: Graduate students, academics and researchers in environmental management/ science.

604pp	Oct 2015	
978-981-4719-13-1	US\$202	£145
978-981-4719-15-5(ebook)	US\$263	£189

**Anaerobic Biotechnology**
Environmental Protection and Resource Recovery
edited by **Herbert H P Fang** & **Tong Zhang** (The University of Hong Kong, China)

Anaerobic biotechnology has become widely accepted by the wastewater industry as the better alternative to the more conventional but costly aerobic process and tens of thousands of full-scale facilities using this technology have been installed worldwide in the past two decades. This book is the sequel to the well-received Environmental Anaerobic Technology: Applications and New Developments (2010) and compiles developments over the past five years.



This volume contains contributions from 48 renowned experts from across the world, including Gatzke Lettinga, laureate of the 2007 Tyler Prize and the 2009 Lee Kuan Yew Water Prize, and Perry McCarty, whose pioneering work laid the foundations for today's anaerobic biotechnology. This book is ideal for engineers and scientists working in the field, as well as decision-makers on energy and environmental policies

420pp	Oct 2015	
978-1-78326-790-3	US\$178	£128
978-1-78326-791-0(ebook)	US\$231	£166

Sustainability Matters

(In 2 Volumes)

Volume 1: Asia's Green Challenges**Volume 2: Asia's Energy Concerns, Green Policies and Environmental Advocacy**edited by **Lin-Heng Lye**, **Victor R Savage**, **Loke Ming Chou**, **Liya E Yu** & **Harn-Wei Kua** (NUS, Singapore)

Sustainability Matters is a compilation of some of the best research papers by students from the National University of Singapore's inter-disciplinary graduate programme in environmental studies, the MSc in Environmental Management [MEM]. This collection is for the period 2009/10 to 2011/12. These two volumes are the third and fourth compilation by the programme, and respectively comprise sixteen and fourteen of the best research papers completed during this period. The papers have been edited for brevity.

Readership: Graduate students, academics and researchers in environmental management/ science.

1108pp	Jun 2014	
978-981-4546-80-5(Set)	US\$320	£211
978-981-4546-82-9(Set)(ebook)	US\$416	£274



:: Bestseller

Handbook of Environment and Waste Management Volume 2: Land and Groundwater Pollution Control

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



This Handbook is a comprehensive compilation of topics that are at the forefront of many of the technical advances and practices in solid waste management and groundwater pollution control. These include biosolids management, landfill for solid waste disposal, landfill liners, beneficial reuse of waste products, municipal solid waste recovery and recycling and groundwater remediation.

Readership: Students and professionals in solid waste management and groundwater pollution control.

1116pp	Feb 2014	
978-981-4449-16-8	US\$248	£164
978-981-4449-17-5(ebook)	US\$322	£213

:: Bestseller

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)

Key Features:

- Comprehensive coverage of air and waste management
- Inclusion of figures, tables, examples and case histories

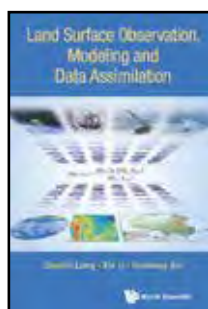
Readership: Advanced undergraduates and graduate students, academia and researchers in environmental engineering, waste management and applications.

1256pp	Mar 2012	
978-981-4327-69-5	US\$319	£211
978-981-4327-70-1(ebook)	US\$415	£274

:: Bestseller

Land Surface Observation, Modeling and Data Assimilation

edited by **Shunlin Liang** (University of Maryland, USA & Beijing Normal University, China), **Xin Li** (Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China) & **Xianhong Xie** (Beijing Normal University, China)



This book is unique in its ambitious and comprehensive coverage of earth system land surface characterization, from observation and modeling to data assimilation, including recent developments in theory and techniques, and novel application cases. This book comprises four parts that are logically connected from data, modeling, data assimilation integrating data and models to applications.

Readership: Graduate students and scientists in remote sensing, hydrology, ecology, environment and other earth sciences.

492pp	Nov 2013	
978-981-4472-60-9	US\$128	£84
978-981-4472-61-6(ebook)	US\$166	£109

:: Bestseller

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** (Cambridge) & **Emily Shuckburgh** (British Antarctic Survey, UK)



"Well organized and well edited, this book provides fast pathways to ambitious young minds to race to the frontiers. If time and effort spent in reading this book carefully should bring abundant rewards of broader and deeper understanding. I would strongly recommend this book to the libraries of all major higher educational, R&D and regulatory institutions, especially in fields related to Earth and environmental sciences".

Current Science

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

332pp	Dec 2011	
978-981-4313-28-5	US\$135	£89
978-981-4366-99-1(pbk)	US\$58	£38
978-981-4313-29-2(ebook)	US\$176	£116

:: Bestseller

Wetlands for Tropical Applications Wastewater Treatment by Constructed Wetlands

edited by **Norio Tanaka** (Saitama University, Japan), **Wun Jern Ng** (Nanyang Technological University, Singapore) & **K B S N Jinadasa** (University of Peradeniya, Sri Lanka)



This book provides a systematic exposition of the design features of constructed wetlands, and their management (in terms of siting, physical maintenance, and operation). 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.

164pp	Aug 2011	
978-1-84816-297-6	US\$85	£56
978-1-84816-298-3(ebook)	US\$110	£73

:: Bestseller

Environmental Anaerobic Technology Applications and New Developments

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

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.

420pp	Jun 2011	
978-1-84816-542-7	US\$158	£104
978-1-84816-543-4(ebook)	US\$205	£136

ENVIRONMENTAL MANAGEMENT & PLANNING



Air Pollution Reviews - Vol 5
Urban Pollution and Changes to Materials and Building Surfaces
 edited by **Peter Brimblecombe**
(City University of Hong Kong, Hong Kong)

This book examines a range of materials, discussing the ways in which they are likely to be damaged by contemporary urban

pollutants, with an emphasis on the effects of air pollution. A chapter on graffiti is also included. This book, with its wealth of information, is of exceedingly good value for readers who seek to understand more on the changes of materials and building surfaces by urban pollution.

Readership: Scientists and policymakers dealing with the effects of urban pollution, as well as undergraduate and graduate students working in this area.

332pp	Jan 2016	
978-1-78326-885-6	US\$138	£99
978-1-78326-886-3(ebook)	US\$179	£129



World Scientific Series on Singapore's 50 Years of Nation-Building

50 Years of Environment Singapore's Journey Towards Environmental Sustainability
 edited by **Yong Soon Tan** (Former Permanent Secretary of the Ministry of the Environment and Water Resources, Singapore & Former Permanent Secretary in the National Climate Change Secretariat in the Prime Minister's Office, Singapore)

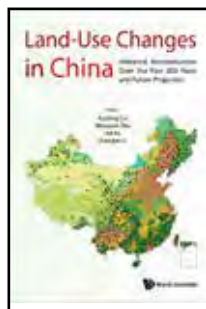
"This book charts a 50-year visionary journey that began on the right foot, with recognition that sustainable economic growth and a clean environment are mutually reinforcing goals. Over these decades, Singapore has moved from cleaning up the land and rivers, through controlling pollution and meeting water needs, to the current use of cutting-edge research and technology to build clean and renewable energy for the future. With the city-state now ranking near the top of the world in terms of environmental standards, the book offers many lessons for other countries looking for ways to meet the growing demand for water and energy while preserving a health-promoting environment."

Dr Margaret Chan

Director-General, World Health Organization

Readership: General readers who are interested in learning more about Singapore's environmental journey, present day developments, and the potential environmental challenges in the future.

292pp	Oct 2015	
978-981-4696-21-0	US\$68	£45
978-981-4696-22-7(pbk)	US\$35	£23
978-981-4696-23-4(ebook)	US\$88	£59

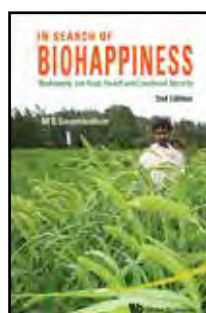


Land-Use Changes in China
Historical Reconstruction Over the Past 300 Years and Future Projection

edited by **Xuefeng Cui, Wenquan Zhu, Xia Xu & Xianglan Li**
(Beijing Normal University, China)

This review volume covers the changes of land use/land cover in China during the recent 300 years. It aims to systematic review the historical land use changes in the past three centuries. China is one of the ancient civilization where mankind transform the environmental and land use in order to survive. This book provides the insightful knowledge into the historical changes, and the lesson learnt in the process of land use.

100pp	Aug 2015	
978-981-4651-77-6	US\$202	£145
978-981-4651-78-3(ebook)	US\$263	£189



In Search of Biohappiness
Biodiversity and Food, Health and Livelihood Security
2nd Edition

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

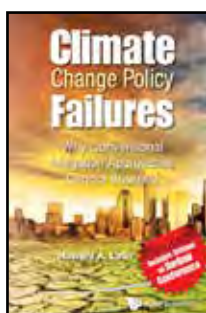
In Search of Biohappiness deals with methods of converting agro-biodiversity hotspots into happy spots. This involves concurrent attention to conservation, and sustainable and equitable use. Bioresources constitute the feedstock for the biotechnology industry. The book aims to promote an era of biohappiness based on the conversion of bioresources into

jobs and income in an environmentally sustainable manner.

This edition brings the position up-to-date, and furthers the cause of biohappiness through the inclusion of a new section on its latest developments.

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

232pp	Jun 2015	
978-981-4656-93-1	US\$107	£77
978-981-4656-94-8(ebook)	US\$139	£100



:: Bestseller

Climate Change Policy Failures
Why Conventional Mitigation Approaches Cannot Succeed

by **Howard A Latin** (Rutgers University, USA)

"This book not only presents a compelling overview of current climate change debates and the policies recommended to address the problems at hand, but it serves as a radical critique of these discussions and approaches, providing alternatives to mainstream viewpoints. More than worth reading."

Jean-Marc Coicaud
Former Director

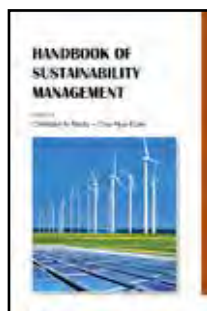
United Nations University Office at the UN Headquarters, New York

Readership: Policymakers, administrative officials, scholars, students, and general readers interested in environmental, political, economic, legal, and international dimensions of global climate change problems.

268pp	May 2012	
978-981-4355-64-3	US\$29	£20
978-981-4355-65-0(ebook)	US\$39	£26



<http://www.facebook.com/worldscientific>



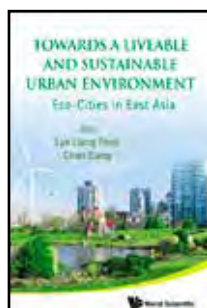
:: Bestseller

Handbook of Sustainability Management
edited by **Christian N Madu & Chu-Hua Kuei** (*Pace University, USA*)

This handbook explores the role of sustainability in achieving social development, environmental protection, and economic development. These three areas constitute what is referred to as the triple bottom line (TBL). Sustainability management may help organizations and their global supply networks to re-evaluate their policies, processes, programs, and projects in terms of triple bottom line. Sustainability helps to facilitate planning, implementing, reviewing, and improving an organization's actions and operations to meet ecological goals.

Readership: Graduate students, researchers and practitioners in the field of environmental management and planning, operations management and environmental education.

912pp	Mar 2012	
978-981-4354-81-3	US\$289	£191
978-981-4354-82-0(ebook)	US\$376	£248



:: Bestseller

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*)

With cities rapidly encroaching onto surrounding lands, the notion of "eco-city" proposes an innovative yet pragmatic approach to designing, building and operating cities in a way that the destructive impact of human urban activity upon nature will be significantly reduced.

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\$85	£56
978-981-4287-77-7(ebook)	US\$110	£73

NOTABLE BACKLIST

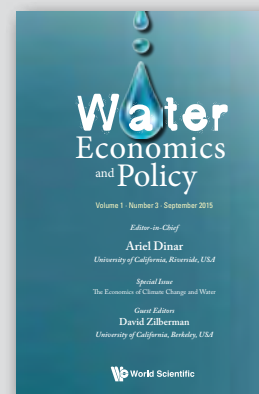
STOCHASTIC MEDICAL REASONING AND ENVIRONMENTAL HEALTH EXPOSURE
CHRISTAKOS GEORGE ET AL (*SAN DIEGO STATE UNIV, USA*)

ENVIRONMENTAL PLANNING AND MANAGEMENT
MADU CHRISTIAN N (*PACE UNIV, NEW YORK, USA*)

ENVIRONMENTAL PRINCIPLES AND ETHICS (WITH FIELD TRIP GUIDE)
WONG MING H, LEE FRANK W K & FUNG MARTIN K F (*HONG KONG BAPTIST UNIV, CHINA*)

SUSTAINABILITY AND CITIES: CONCEPT AND ASSESSMENT
OOI GIOK LING (*INST OF POLICY STUDIES, S'PORE*)

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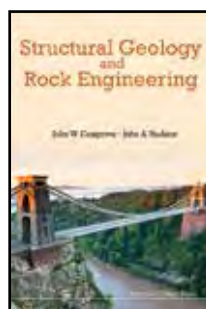
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GEOLOGY / EARTH STUDIES / EARTH SCIENCE

Structural Geology and Rock Engineering

by **John W Cosgrove** (Imperial College London, UK),
John A Hudson (Imperial College London, UK)

With focus on rock engineering projects, this book uses case studies and an integrated engineering approach to provide an understanding of projects constructed on or in rock masses. Based on Professors Cosgrove and Hudson's university teaching at Imperial College London, as well as relevant short course presentations, it explains the processes required for engineering modelling, design and construction.



The first half of the book provides step-by-step presentations of the principles of structural geology and rock mechanics with special emphasis on the integration between the two subjects. The second half of the book turns principles into practice. A wealth of practical engineering examples are presented, including evaluations of bridge foundations, quarries, dams, opencast coal mining, underground rock engineering, historical monuments and stone buildings.

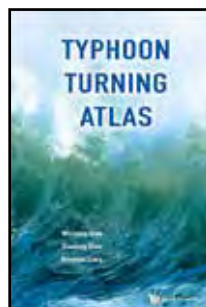
Readership: Teachers, researchers and engineers interested in the study and practice of rock-based projects in engineering.

350pp	Oct 2016	
978-1-78326-956-3	US\$125	£83
978-1-78326-957-0(pbk)	US\$70	£46

Typhoon Turning Atlas

by **Weihong Qian, Xiaolong Shan & Haoyuan Liang**
(Peking University, China)

This book provides an additional tool to deal with the typhoon turning question by using a physical decomposition method together with thousands of plots. In particular, this atlas provides important information of 322 historical typhoons that occurred in the past three decades and demonstrates how they were influenced respectively.



Readership: Graduates, researchers, and meteorologists who are interested in typhoons and forecasting, earth science, meteorology, and complex systems.

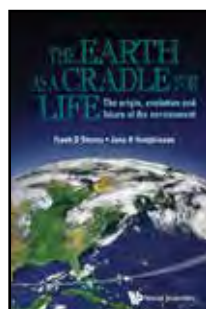
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The Earth as a Cradle for Life The Origin, Evolution and Future of the Environment

by **Frank D Stacey & Jane H Hodgkinson** (CSIRO Earth Science and Resource Engineering, Australia)

"The sense of seeking to convince the reader, however, lends the book a clear, decisive and ultimately highly readable tone. This book straddles the line between a textbook and a general-interest volume quite comfortably, making it suitable for anyone with a basic understanding of science that wants to place modern climate change in the context of the Earth's history."



European Geosciences Union

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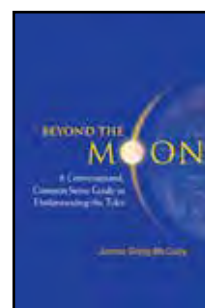
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A Conversational, Common Sense
Guide to Understanding the Tides

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

"This very readable treatise on ocean tides and how they operate should appeal to anyone who has watched the rise and fall of the ocean along the coast. Though the lack of mathematical treatment of tide might offend the scientific purists, the material enables the reader to explain how tides work to her or his seatmate on an airplane. Even oceanographers are hard pressed to explain correctly why daily there are two high and two low ocean tides. The historical quotes are wonderful and the illustrations are illuminating. I recommend the book to anyone who might be called upon to explain ocean tides to students or the public. Dr. Arden Bement (Director of the National Science Foundation) recently stated '... there has been little dialogue between them (scientists) and the larger public.' It is possible that this little book will help close that gap between the science community and the public."



Thomas C Royer

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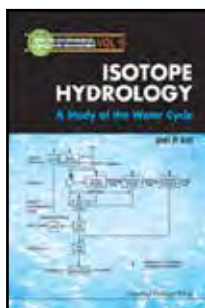
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by Joel R Gat (Weizmann Institute of Science, Israel)

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

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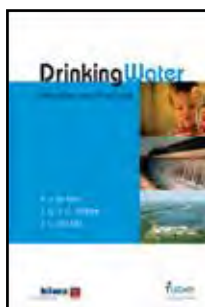
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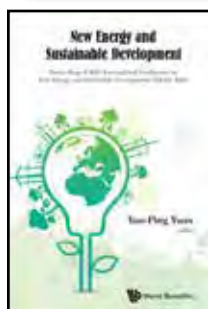
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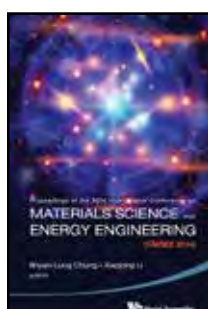
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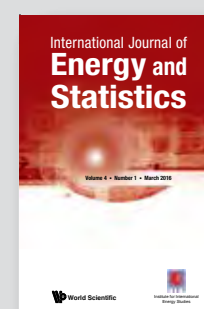
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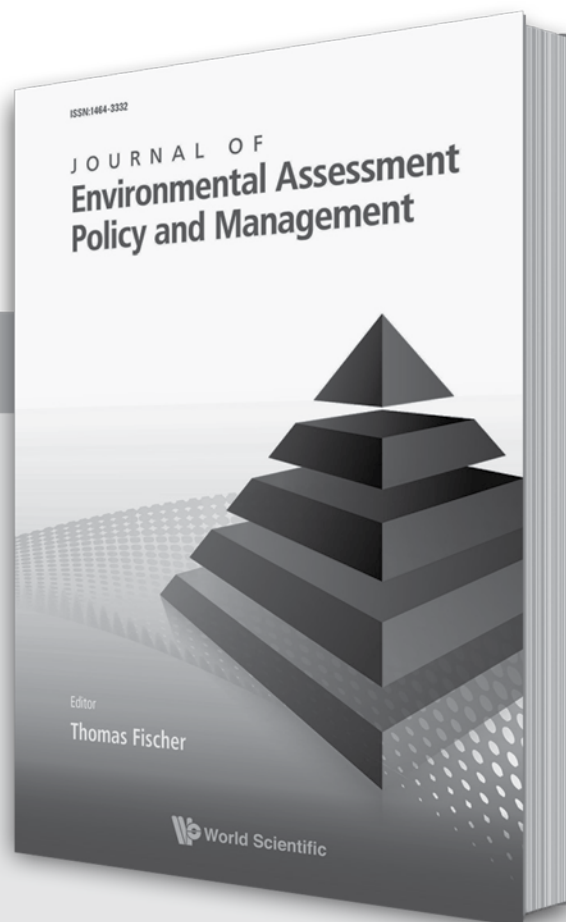
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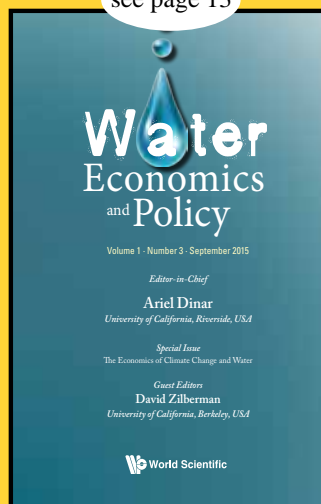
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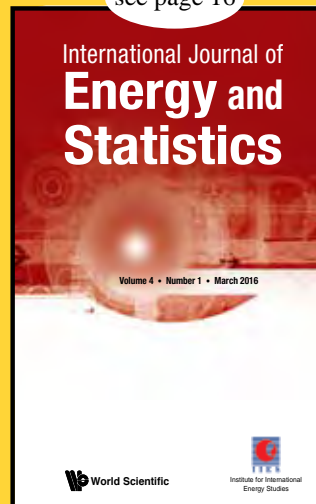
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