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A Cultural History of Famine

Food Security and the Environment in India and Britain

Edited by **Ayesha Mukherjee**, University of Exeter, UK

Series: Routledge Environmental Humanities

This book brings together perspectives on food security and related environmental concerns from experts in the disciplines of literary studies, history, science, and social sciences. It allows readers to compare past and contemporary attitudes towards the theme in India and Britain – the economic, social, and environmental histories of these two nations have been closely connected ever since British travellers began to visit India in the latter half of the sixteenth century. This book will be of great interest to students and researchers of economic and social history, environmental history, literary studies and South Asian studies.

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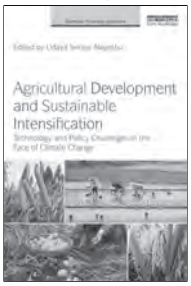
Agricultural Development and Sustainable Intensification

Technology and Policy Challenges in the Face of Climate Change



Edited by **Udaya Sekhar Nagothu**, Bioforsk, Norwegian Institute of Agricultural and Environmental Research, As, Norway

Series: Earthscan Food and Agriculture

Sustainable Intensification (SI) has recently emerged as a key concept for agricultural development, recognizing that yields must increase to feed a growing world population, but that this must be achieved without damage to the environment. This book reviews current SI approaches to the major food crops, advances made in technology, and the institutional and policy measures necessary to overcome the constraints faced by smallholder farmers. It is aimed at advanced students and researchers in sustainable agriculture and policy, development practitioners and policy makers.

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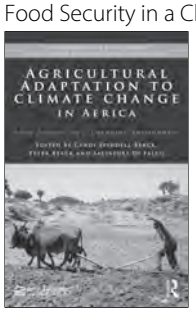
Agricultural Adaptation to Climate Change in Africa

Food Security in a Changing Environment



Edited by **Cyndi Spindell Berck**, **Peter Berck**, University of California Berkeley, USA and **Salvatore Di Falco**, University of Geneva, Switzerland

Series: Environment for Development

A changing climate is likely to have a drastic impact on crop yields in Africa. The purpose of this book is to document the effects of climate change on agriculture in sub-Saharan Africa and to discuss strategies for adaptation to hotter weather and less predictable rainfall. It includes case studies from Ethiopia, Kenya and Tanzania, and is aimed at advanced students, researchers, and professionals in agricultural economics and development, environment and African studies.

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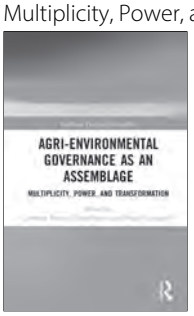
Agri-environmental Governance as an Assemblage

Multiplicity, Power, and Transformation



Edited by **Jérémie Forney**, University of Neuchatel, Switzerland, **Chris Rosin**, Lincoln University, New Zealand and **Hugh Campbell**, University of Otago, New Zealand

Series: Earthscan Food and Agriculture

Agri-environmental governance has become a highly complex assemblage of actors and instruments, with multiple interrelations. This book addresses this complexity, challenging research both at the theoretical and methodological levels. It draws on multiple theoretical and methodological insights, drawing on case studies from Asia, Europe and the Americas and develops a renewed approach of AEG practices as assemblages.

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Farmers' Cooperatives and Sustainable Food Systems in Europe

Raquel Ajates Gonzalez, University of Dundee, UK

Series: Earthscan Food and Agriculture

Farmers' cooperatives are very prevalent in the European Union, where they account for approximately half of agricultural trade. This book analyzes to what extent farmers' cooperatives are working to benefit their members, are showing concern for their communities and are promoting cooperative economies as part of sustainable food systems. Using the UK and Spain as contrasting examples, it is a valuable resource for researchers and students studying agricultural and food policy, and rural sociology.

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Community Forestry in Nepal

Adapting to a Changing World

Edited by **Richard Thwaites**, Charles Sturt University, Australia, **Robert Fisher**, The University of Sydney, Australia University of Sydney, Australia and **Mohan Poudel**, REDD Implementation Centre, Nepal

Series: The Earthscan Forest Library

Community forestry focuses on the link between forest resources and livelihoods and contributes to forest conservation and reforestation. It is widespread in Nepal, with a very high proportion of the rural population involved, and is widely recognised as one of the most successful examples of community forestry in Asia. Through a combination of literature reviews and original research, this volume explores key experiences of community forestry in Nepal over the last four decades as a model for improving forest management and supporting local livelihoods.

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Environmental Justice and Soy Agribusiness

Robert Hafner, Innsbruck University, Austria

Series: Earthscan Food and Agriculture

Environmental justice research and activism predominantly focus on openly conflictive situations; however, situations of injustice can still occur even if there is no overt conflict. This book fills this gap by applying an environmental justice incommensurabilities framework to the expansion of the soy agribusiness sector, using a detailed case study from Argentina. Of interest to researchers in environmental justice, political ecology, rural sociology and Latin American studies.

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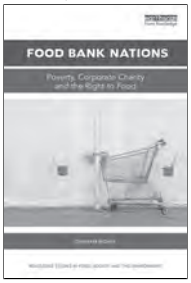
Food Bank Nations

Poverty, Corporate Charity and the Right to Food



Graham Riches, University of British Columbia, Canada

Series: Routledge Studies in Food, Society and the Environment

This powerful book asks why in the world's most affluent and food secure societies it is now publicly acceptable to feed donated surplus food and corporate food waste to millions of hungry people. It challenges the effectiveness, sustainability and moral legitimacy of food banking as the primary response to rich world food poverty. Aimed at students and more general readers, it uses the Food Bank Nation as a powerful metaphor for the deep social vacuum at the centre of neoliberal economies which relies on charity to solve food poverty.

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Financialization, Food Systems and Rural Transformation

Edited by **Hilde Bjorkhaug**, **André Magnan** and **Geoffrey Lawrence**

Series: Earthscan Food and Agriculture

Financialization is the increased influence of financial actors and logics on social and economic life, and is one of the key drivers transforming food systems and rural economies around the world. This book explores the connection between financialization, food systems, and rural transformation by critically examining three issues: the concept of financialization and how food and farming is being financialized; the impacts of financialization in the food industry; and financialization in farming and forestry and the impacts this has on rural people and communities.

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Food, Farming and Religion

Emerging Ethical Perspectives

Gretel Van Wieren

Series: Routledge Environmental Humanities

Although the religious and ethical consideration of food is not a new phenomenon, the debate about food and eating today is different from most of what has preceded it. This book examines how religious traditions and communities in the United States and beyond are responding to critical environmental ethical issues posed by the global food system. In particular, it looks at the responses that have developed within Jewish, Christian, and Muslim traditions, and shows how they relate to broader approaches to food and environmental ethics. This book will appeal to an interdisciplinary audience including those interested in environment and sustainability, food studies, ethics and religion.

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Food and Cooking Skills Education

Why teach people how to cook?

Anita Tull, Food and Nutrition Educational Author and Consultant, UK

Series: Routledge Studies in Food, Society and the Environment

Food and Cooking Skills Education (FCSE) is a complex mix of policy and practicality, educational theory and pedagogy, classroom and government policy. This book shows how FCSE has been at the centre of a tussle between education and policy. Based on detailed research conducted across England and Wales, as well as comparisons with 35 other countries or states, it makes recommendations for policy and suggestions for further research.

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Forest Landscape Restoration

Integrated approaches for effective implementation

Edited by **Stephanie Mansourian**, Geneva University, Switzerland and **John Parrotta**, US Forest Service, USA

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Forest landscape restoration (FLR) is a planned process that aims to regain ecological integrity and enhance human wellbeing in deforested or degraded landscapes. The aim of this book is to better understand the need to take human and institutional factors, as well as the more obvious biophysical, into consideration in FLR. It will interest researchers and professionals in forestry, ecology, geography, environmental governance and landscape studies.

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Governing Sustainable Seafood

Peter Oosterveer, Wageningen University, The Netherlands and **Simon Bush**, Wageningen University, the Netherlands

Series: Earthscan Food and Agriculture

Taking a social science approach, this book explores the governance of sustainable seafood. The authors take into account the rise of social movements through environmental NGOs, the nature and perceived limits of government regulation within and beyond the state, and the promise of market-based approaches such as ecolabelling. It focuses on how concern over sustainable seafood has been translated into different current forms of governance and assesses what alternative approaches are starting to emerge, as well as their effects. The book finishes with a vision for the future through key principles for evaluating the collective impact of governing sustainable seafood.

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Organic Food and Farming in China

Top-down and Bottom-up Ecological Initiatives

Scott Steffanie, University of Waterloo, Canada, **Zhenzhong Si**, Balsillie School of International Affairs, Waterloo, Canada, **Theresa Schumilas**, Wilfred Laurier University, Canada and **Aijuan Chen**, Statistic Canada, Canada

Series: Earthscan Food and Agriculture

China has a rapidly expanding organic agriculture and food sector, and there is a revolution in ecological food and ethical eating in China's cities. This book shows how social, economic, cultural and environmental conditions have converged to shape the development of a 'formal' organic sector, created by 'top-down' state-developed standards and regulations, and an 'informal' organic sector, created by 'bottom-up' grassroots struggles for healthy and sustainable food. It is aimed at advanced students and researchers of agricultural and food systems and policy, rural sociology and Chinese studies.

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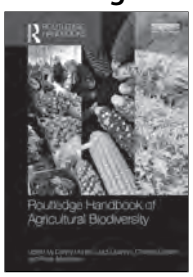
Routledge Handbook of Agricultural Biodiversity



Edited by **Danny Hunter**, Bioversity International, Rome, Italy, **Luigi Guarino**, Global Crop Diversity Trust, Bonn, Germany, **Charles Spillane**, National University of Ireland, Galway, Ireland and **Peter C. McKeown**, National University of Ireland Galway, Ireland

Recent decades have brought an increased appreciation of the risk to food security and quality that the world's reliance on very few crop and animal species poses. This handbook presents a comprehensive overview of our current knowledge of agricultural biodiversity. It draws on multiple disciplines including genetics, ecology and nutrition, as well as social science subjects which explore the socio-economic, cultural, institutional, legal and policy aspects of agricultural biodiversity. It provides an indispensible reference textbook for a wide range range of courses in agriculture, biodiversity conservation and environmental studies.

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Transforming Food and Agricultural Policy

Post-exceptionalism in public policy

Edited by **Carsten Daugbjerg** and **Peter H. Feindt**

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This book analyses current moves of Western democratic welfare states away from compartmentalized sectoral governance arrangements towards more open, contested and networked politics. The chapters originally published as a special issue in *The Journal of European Public Policy*.

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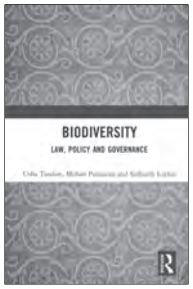
Biodiversity

Law, Policy and Governance



Edited by **Usha Tandon**, Professor and Head at Campus Law Centre, University of Delhi, India, **Mohan Parasaran**, senior advocate, Supreme Court of India and previously the Solicitor General of India and Additional Solicitor General of India and **Sidharth Luthra**, senior advocate at the Supreme Court of India and earlier the Additional Solicitor General of India

Conservation of biodiversity is a fundamental concern towards securing a sustainable future. This volume argues that despite various domestic and international policies and legal frameworks on biodiversity conservation — be it forest, wildlife, marine, coastal, etc. — their implementation suffers from many deficiencies. It explores the factors that hinder effective implementation of these policies and frameworks. It also analyses existing laws, both international and domestic, to identify inherent problems in the existing legal system.

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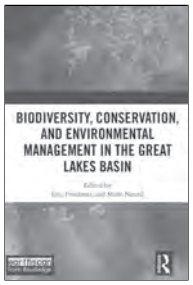
Biodiversity, Conservation and Environmental Management in the Great Lakes Basin



Edited by **Eric Freedman**, Michigan State University, USA and **Mark Neuzil**, University of St. Thomas, St. Paul, Minnesota, USA

This multidisciplinary book presents recent research to demonstrate the interconnected nature of the challenges facing the The Great Lakes Basin in North America , which holds more than 20 percent of the world's fresh water, and where threats to habitats and biodiversity have economic, political, national security, and cultural implications and ramifications that cross the US-Canadian border. It covers threats from invasive species, industrial development, climate change, agricultural and chemical runoff, air emissions, dependence on fossil fuels, energy exploration and hydraulic fracturing, disease and pollution.

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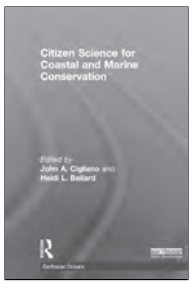
Citizen Science for Coastal and Marine Conservation



Edited by **John A. Cigliano**, Cedar Crest College, USA and **Heidi L. Ballard**, University of California, Davis, USA

Series: Earthscan Oceans

In recent years citizen science has emerged as a powerful concept to enable the general public, students and volunteers to become involved in scientific research. A prime example is in nature conservation, where data collection and environmental monitoring can be greatly enhanced through citizen participation. This is the first book to provide much needed guidance and case studies from marine and coastal conservation from around the world.

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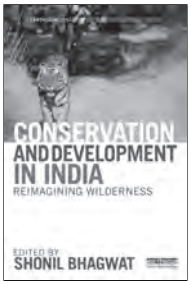
Conservation and Development in India

Reimagining Wilderness



Edited by **Shonil Bhagwat**, The Open University, UK

Series: Earthscan Conservation and Development

This book takes a critical look at nature conservation and poverty alleviation in India, a country that stands at a major crossroads. Despite decades of efforts to integrate conservation and development, India is torn between two very different worldviews of peoples' place in the country's natural environment: increasingly concerned with creating 'theme parks' – inviolate, albeit isolated, spaces for wild nature – on the one hand, while on the other hand, concerned with impoving livelihoods for the poor in rural areas. Conservation and development therefore have very different motivations and attempts to find a common ground have been fraught with challenges.

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Conservation and Development in Uganda

Edited by **Chris Sandbrook**, UNEP, UK, **Connor Joseph Cavanagh**, Norwegian University of Life Sciences, Norway and **David Mwesigye Tumusiime**, Makerere University, Uganda

Series: Earthscan Conservation and Development

This volume reviews and assesses varied approaches to conservation and development in Uganda, a country whose recent history is characterized by a highly volatile governance and development context and whose extensive tropical forests and iconic wildlife (including mountain gorillas) have global significance for biodiversity. It highlights the stakes both for vulnerable human populations in the context of large and growing socioeconomic inequalities, as well as for Uganda's rich, unique, natural environment. It draws out lessons that can be learned from the Ugandan experience for conservation and development practitioners and scholars around the world.

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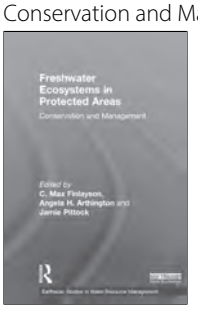
Freshwater Ecosystems in Protected Areas

Conservation and Management



Edited by **C. Max Finlayson**, Charles Sturt University, Australia, **Angela H. Arthington**, Griffith University, Australia and **Jamie Pittock**, The Australian National University, Australia

Series: Earthscan Studies in Water Resource Management

Freshwater ecosystems have the greatest species diversity per unit area. This book shows that, rather than a marginal part of protected area management, freshwater conservation is central to sustaining biodiversity. It focuses on better practices for conserving inland aquatic ecosystems in protected areas (PAs), including rivers, wetlands, swamps, other brackish and freshwater ecosystems, and coastal estuaries.

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Large Carnivore Conservation and Management

Human Dimensions

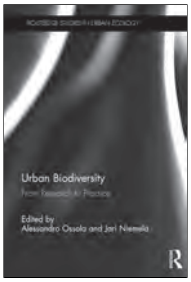
Edited by **Tasos Hovardas**, University of Cyprus, Cyprus

This book demonstrates why human dimensions of relationships to large carnivores are crucial for their successful conservation and management. It provides an overview of theoretical and methodological aspects, heterogeneity in stakeholder perceptions and behaviour as well as decision making, policy and governance. The scope is international, with examples from Europe, North America, Asia and Africa, including lions, snow leopards, bears and wolves and the challenges faced by national parks and protected areas.

Routledge
Market: Zoology, Environment, Conservation
June 2018: 234x156: 352pp
Hb: 978-1-138-03999-5: **£120.00**
eBook: 978-1-315-17545-4
* For **full contents** and more information, visit: **www.routledge.com/9781138039995**

Urban Biodiversity

From Research to Practice



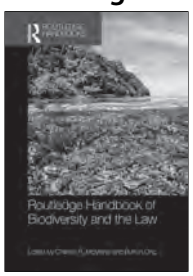
Edited by **Alessandro Ossola**, Macquarie University, Sydney, Australia and Univerisity of Melbourne, Australia and **Jari Niemelä**, University of Helsinki, Finland

Series: Routledge Studies in Urban Ecology

Worldwide, a variety of projects are revealing how urbanization impacts biodiversity and conversely the relative benefits of biodiversity for the urban environment and people. This book synthesizes this area of research at a level suitable for both students and professionals working in nature conservation and urban planning and management.

Routledge
Market: Ecology / Urban Studies / Geography / Planning / Environment & Sustainability
December 2017: 234x156: 260pp
Hb: 978-1-138-22438-4: **£110.00**
Pb: 978-1-138-22439-1: **£36.99**
eBook: 978-1-315-40258-1
* For **full contents** and more information, visit: **www.routledge.com/9781138224384**

Routledge Handbook of Biodiversity and the Law



Edited by **Charles R. McManis**, Washington University in St. Louis, USA and **Burton Ong**, National University of Singapore

This volume provides a comprehensive compilation of multifaceted perspectives on the legal issues arising from the conservation and exploitation of non-human biological resources. Contributors include leading academics, policy-makers and practitioners reviewing a range of socio-legal issues concerning the relationships between humankind and the natural world, including intellectual property, biotechnology and traditional knowledge.

Routledge
Market: Law / Biology / Environment & Sustainability
December 2017: 246x174: 422pp
Hb: 978-1-138-69330-2: **£175.00**
eBook: 978-1-315-53085-7
* For **full contents** and more information, visit: **www.routledge.com/9781138693302**

Sharks in the Arts

From Feared to Revered

Vivienne Westbrook, National Taiwan University, Taiwan, **Shaun Collin**, **Dean Crawford** and **Mark Nicholls**, University of Cambridge, UK

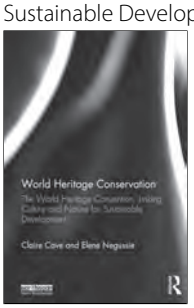
Series: Routledge Environmental Humanities

This book explores the many ways in which a wild creature has been absorbed, reimagined and represented across the ages in all of the major art forms. It begins with the four sharks at the top of global shark attack file from scientific, economic and environmental perspectives. It engages with cultural representations of sharks in poetry, drama, art, and advertising, in novels, screenplay adaptations and films. It argues that the conscious cultural representation of sharks in negative and positive ways impacts on the decisions made about real sharks in the wild.

Routledge
Market: Environment, Sustainability / Conservation / Zoology / Marine Science
May 2018: 234x156: 216pp
Hb: 978-1-138-92966-1: **£115.00**
eBook: 978-1-315-68107-8
* For **full contents** and more information, visit: **www.routledge.com/9781138929661**

World Heritage Conservation

The World Heritage Convention, Linking Culture and Nature for Sustainable Development



Claire Cave, University College Dublin, Ireland and **Elene Negussie**, University College Dublin, Ireland

The UNESCO World Heritage Convention has become one of the most successful UN instruments for promoting cultural diplomacy and dialogue on conservation of cultural and natural heritage. This book provides an overview of the Convention through an interdisciplinary approach to conservation. It shows that the Convention provides a platform for sustainable development through the conservation and management of heritage of significance to humanity. Targeted at a diversity of disciplines, the book critically describes the strategies for implementing the Convention and the processes of heritage governance for environmental sustainability.

Routledge
Market: Environment & Sustainability / Conservation / Tourism
October 2017: 234x156: 300pp
Hb: 978-0-415-72854-6: **£110.00**
Pb: 978-0-415-72855-3: **£36.99**
eBook: 978-1-315-85163-1
* For **full contents** and more information, visit: **www.routledge.com/9780415728546**

A Critical Approach to Climate Change Adaptation

Discourses, Policies and Practices

Edited by **Silja Klepp** and **Libertad Chavez-Rodriguez**

Series: Routledge Advances in Climate Change Research

This edited volume brings together critical research on climate change adaptation discourses, policies, and practices from a multi-disciplinary perspective. Drawing on examples from countries including Germany, Mexico, the USA and Indonesia, the chapters describe how adaptation measures are interpreted, transformed and implemented at grassroots level and how these measures are changing or interfering with power relations, legal pluralism and local (ecological) knowledge. This book will be of great interest to students and scholars of climate change, environmental law and policy, and environmental sociology.

Routledge
Market: Environment and Sustainability
July 2018: 234x156: 280pp
Hb: 978-1-138-05629-9: **£115.00**
eBook: 978-1-315-16544-8
* For **full contents** and more information, visit: **www.routledge.com/9781138056299**

Climate Change and Social Inequality

The Health and Social Costs of Global Warming

Merrill Singer

Employing the experience-near anthropological lens to consider human social life in an environmental context, this book examines the fateful global intersection of ongoing climate change and widening social inequality. Drawing on case studies from Alaska, Ecuador, Bangladesh, Haiti and Mali, *Climate Change and Social Inequality* will be of great interest to students and scholars of climate change and climate science, environmental anthropology, medical ecology and the anthropology of global health.

Routledge
November 2018: 234x156: 176pp
Hb: 978-1-138-10290-3: **£110.00**
Pb: 978-1-138-10291-0: **£31.99**
eBook: 978-1-315-10335-8
* For **full contents** and more information, visit: **www.routledge.com/9781138102903**

Climate Change Displacement and Human Rights Implications

Beyond North-South Divisiveness

Mostafa Naser

Series: Routledge Studies in Environmental Migration, Displacement and Resettlement

This book explores the human rights implications of climate change displacement and confirms the importance of a human rights-based policy framework. Examining adaptive strategies implemented in Bangladesh, Papua New Guinea, USA and UK, Naser presents a comparative study of effectiveness that facilitates the exchange of knowledge and experience between developed and developing countries. Overall, this book promotes climate-displacement protection mechanisms that will enable durable and sustainable solutions within a human rights framework.

Routledge
July 2018: 234x156: 216pp
Hb: 978-1-138-09718-6: **£105.00**
eBook: 978-1-315-10503-1
* For **full contents** and more information, visit: **www.routledge.com/9781138097186**

Climate Change Journalism

Stakeholders and opinion

Julian Matthews

Series: Routledge Studies in Environmental Communication and Media

Journalism, Stakeholders and Climate Change recognises journalism institutions as a site where acts of news-making construct and assemble the raw materials into stories. Significant to this moment of story production and of interest to the book however, is the bustle and noise of many who seek to politicize the climate change issue and other audiences who then act to understand and remediate it, all of whom exist outside of news institutions. Examining key issues such as stakeholder activity and the role of news consumers, it will be of great interest to students and scholars of climate change and environmental media and communication.

Routledge
Market: Climate Change/ Environmental Communication
July 2018: 234x156: 200pp
Hb: 978-1-138-28277-3: **£95.00**
Pb: 978-1-138-28279-7: **£29.99**
eBook: 978-1-315-27053-1
* For **full contents** and more information, visit: **www.routledge.com/9781138282773**

Climate Justice and the Economy

Social mobilization, knowledge and the political

Edited by **Stefan Gaarsmand Jacobsen**, Copenhagen Business School, Denmark

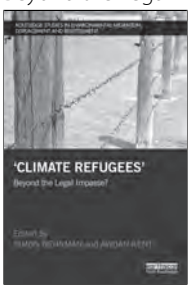
Series: Routledge Advances in Climate Change Research

This book breaks new ground by investigating what kind of economy the climate justice movement is calling for us to build and how the struggle for economic change has unfolded so far. Examining ecological debt, just transition, indigenous ecologies, social ecology community economies and divestment among other topics, the authors provide a critical assessment and a common ground for future debate on economic innovation via social mobilization.

Routledge
Market: Environment, Sustainability
May 2018: 234x156: 264pp
Hb: 978-1-138-23474-1: **£115.00**
eBook: 978-1-315-30619-3
* For **full contents** and more information, visit: **www.routledge.com/9781138234741**

Climate Refugees

Beyond the Legal Impasse?



Edited by **Simon Behrman** and **Avidan Kent**, University of East Anglia, UK

Series: Routledge Studies in Environmental Migration, Displacement and Resettlement

Climate Refugees: Beyond the Legal Impasse will address a fundamental gap in academic literature and policy making; namely the legal 'no-man's land' in which the issue of climate refugees currently resides. Past proposals for the regulation of climate-induced migration are evaluated, *inter alia* by their original authors, and the volume also looksat the current attempts to regulate climate-induced migration, including by officials from the International Organisation for Migration (IOM) and the Nansen Initiative. Finally, future pathways are considered, such as the use of International Environmental Law and soft law principles.

Routledge
Market: Climate Change/Environmental Law/Migration Studies
February 2018: 234x156: 286pp
Hb: 978-1-138-08881-8: **£110.00**
Pb: 978-1-138-08882-5: **£34.99**
eBook: 978-1-315-10961-9
* For **full contents** and more information, visit: **www.routledge.com/9781138088818**

EU Climate Diplomacy

Politics, Law and Negotiations

Edited by **Stephen Minas**, King's College London, UK and **Vassilis Ntousas**

Series: Routledge Advances in Climate Change Research

This book will extend knowledge of the EU as a key actor in climate diplomacy by bringing together leading practitioners and researchers in this field to take stock of the EU's current role and emerging issues. Contributions will be grouped into three strands: 1. The interplay between EU climate diplomacy and internal EU politics; 2. The EU's contribution to diplomacy concerning climate technology; and 3. How EU climate diplomacy is engaging with networks of non-state actors. This book will be of great relevance to students, scholars and policymakers with an interest in international climate politics and policy, transnational environmental law and politics, and EU studies more generally.

Routledge
Market: Environment, Sustainability
May 2018: 234x156: 192pp
Hb: 978-1-138-09728-5: **£115.00**
eBook: 978-1-315-10498-0
* For **full contents** and more information, visit: **www.routledge.com/9781138097285**

Geoengineering our Climate?

Ethics, Politics and Governance

Edited by **Jason J Blackstock**, International Institute for Applied Systems Analysis, Austria and **Low Sean**

Series: The Earthscan Science in Society Series

As negotiations aimed at improving our global response to climate change continue to falter, geoengineering is expected to receive increasingly serious consideration by states seeking ways to manage the most dangerous risks of climate change. This book provides an indispensable resource for scientists, activists, policymakers and political figures aiming to engage in the geoengineering debate.

Routledge
Market: Environment and Sustainability
June 2018: 234x156: 272pp
Hb: 978-1-849-71373-3: **£110.00**
Pb: 978-1-849-71374-0: **£34.99**
eBook: 978-0-203-48526-2
* For **full contents** and more information, visit: **www.routledge.com/9781849713733**

Institutional Capacity for Climate Change Response

A New Approach to Climate Politics

Edited by **Theresa Birgitta Brønnum Scavenius**, University of Copenhagen, Denmark and **Steve Rayner**, University of Oxford, UK

Series: The Earthscan Science in Society Series

The term "institutional response capacity" can be defined as a measurement for how effective political institutions may respond to threats and challenges such as climate change. This book sets out to provide a discussion of how to conduct climate politics by offering new perspectives on how social and political institutions are capable of responding to climate change. In doing so, the book explores how democracy, institutional design and polycentric governance influence social and political entities' capacity to mitigate, adapt, address and transform climate change.

Routledge
Market: Environment, Sustainability
January 2018: 234x156: 164pp
Hb: 978-1-138-12098-3: **£115.00**
eBook: 978-1-315-65135-4
* For **full contents** and more information, visit: **www.routledge.com/9781138120983**

Postericide in the Anthropocene

A Global Intergenerational Crime

Catriona McKinnon

Drawing on political theory, moral philosophy and jurisprudence, this book identifies the components of postericide, the theoretical challenges created by commitment to these components, and the ways in which the challenges should be met. As a case study, the book assesses the unilateral deployment of solar radiation management as postericidal conduct, insofar as it greatly heightens the danger of human extinction as a result of the effects of its rapid termination. An innovative examination of a new area of intergenerational ethics, McKinnon's book will be of great interest to scholars and students of climate policy and justice, political theory, and environmental law and ethics.

Routledge
Market: Environment and Sustainability
September 2018: 234x156: 200pp
Hb: 978-1-138-72379-5: **£95.00**
eBook: 978-1-315-19277-2
* For **full contents** and more information, visit: **www.routledge.com/9781138723795**

Regenerative Urban Development, Climate Change and the Common Good

Edited by **Beth Schaefer Caniglia**, Oklahoma State University, Department of Sociology, USA, **Beatrice F. Frank**, Oklahoma State University, Department of Sociology, **John Knott**, **Ken Sagendorf** and **Eugene Wilkerson**

Series: Routledge Explorations in Environmental Studies

This book brings together key thinkers in this field to develop a meaningful synthesis between the existing practice of regenerative development and the input of scholars in the social sciences. It will be of great interest to students, scholars and practitioners of regenerative development, climate change, urban planning and public policy.

Routledge
November 2018: 234x156: 304pp
Hb: 978-1-138-55692-8: **£110.00**
eBook: 978-1-315-15050-5
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Regime Interaction and Climate Change

The Case of International Aviation and Maritime Transport

Beatriz Martinez Romera

Series: Routledge Research in Global Environmental Governance

This book explores the law-making process for the regulation of IBF through the lenses of international law and regime interaction. It sheds light on how interaction between the United Nations Framework Convention on Climate Change (UNFCCC), ICAO and IMO regimes occurs, the consequences of such interaction and how they can be managed to resolve conflict and promote synergy. After mapping out the legal frameworks in the three selected regimes, the author proposes various legal solutions and puts forward policy recommendations to move the regulation of IBF out of a stalemate situation.

Routledge
Market: Environment, Sustainability
December 2017: 234x156: 268pp
Hb: 978-1-138-21190-2: **£105.00**
eBook: 978-1-315-45181-7
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Routledge Handbook of Climate Justice

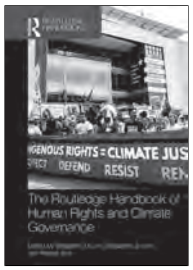
Edited by **Tahseen Jafry**

Series: Routledge International Handbooks

Addressing the need for a comprehensive and integrated reference compendium, *The Routledge Handbook of Climate Justice* provides students, academics, professionals and practitioners with a valuable insight into this fast-growing field. Drawing together a multidisciplinary range of authors from the global North and South, the Handbook explores key issues such as water, energy, gender and social education.

Routledge
Market: Climate Change/Environment and Sustainability
July 2018: 246x174: 488pp
Hb: 978-1-138-68935-0: **£165.00**
eBook: 978-1-315-53768-9
* For **full contents** and more information, visit: **www.routledge.com/9781138689350**

Routledge Handbook of Human Rights and Climate Governance



Edited by **Sébastien Duyck**, University of Bern, Switzerland, **Sébastien Jodoin**, McGill University, Canada and **Alyssa Johl**, Climate Rights Collective, USA

Series: Routledge International Handbooks

This Handbook brings together leading scholars and practitioners to offer a timely and comprehensive analysis of the opportunities and challenges for integrating human rights in diverse areas and forms of global climate governance. The first half of the book explores how human rights principles and obligations can be used to reconceive climate governance and shape responses to particular aspects of climate change. The second half of the book identifies early lessons in the integration of human rights in climate advocacy and governance and sets out future directions in this burgeoning domain.

Routledge
Market: Environment, Climate Change, Human Rights
February 2018: 246x174: 440pp
Hb: 978-1-138-23245-7: **£165.00**
eBook: 978-1-315-31257-6
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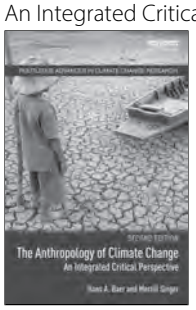
The Anthropology of Climate Change

An Integrated Critical Perspective



Hans Baer and **Merrill Singer**, University of Connecticut, USA

Series: Routledge Advances in Climate Change Research

In addressing the urgent questions raised by climate change, this book provides a comprehensive overview of the anthropology of climate change guided by a critical political ecological framework. This second edition is fully updated to include the most recent literature published since the first edition in 2014. It also examines a number of new topics including the policy statements and actions of Donald Trump on climate change, the work of psychologists, historians, philosophers, and cultural studies academics and the recent debates around the concept of the Anthropocene.

Routledge
Market: Climate Change / Anthropology / Sociology
April 2018: 234x156: 280pp
Hb: 978-1-138-57482-3: **£110.00**
Pb: 978-1-138-57484-7: **£31.99**
eBook: 978-1-351-27312-1
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The Global Climate Regime and Transitional Justice

Sonja Klinsky and **Jasmina Brankovic**

Series: Routledge Advances in Climate Change Research

This book examines the potential of transitional justice practices to inform global climate governance. It discusses managing historical responsibility, redressing past harms and ensuring institutional reform, including lessons on implementation learned by transitional justice practitioners, before exploring what transitional justice could learn from the climate context. By combining these two fields the book provides a new framework through which to understand the challenges of building solidarity and collective climate action.

Routledge
Market: Environment and Sustainability
April 2018: 234x156: 224pp
Hb: 978-0-415-78602-7: **£115.00**
eBook: 978-1-315-22803-7
* For **full contents** and more information, visit: **www.routledge.com/9780415786027**

Climate Change Governance and Adaptation

Case Studies from South Asia

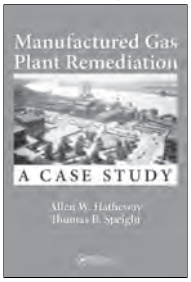
Edited by **Anamika Barua**, Indian Institute of Technology, Guwahati, **Vishal Narain**, Management Development Institute, India and **Sumit Vij**, Wageningen University, the Netherlands

Climate change in this book is seen not only as an environmental problem but as a societal challenge too and as such discusses the governance issues from an interdisciplinary approach and across different scales: local, state, and national. Drawing governance lessons from case studies across South Asia, the book addresses the impact of urbanization and migration, the role of financing mechanisms and the economics of adaptation, and emphasizes that a top down approach in governing climate change adaptation and mitigation may not provide desired outcomes. The authors use governance as a lens to understand the challenges and opportunities regarding climate adaptation and mitigation strategies.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 224pp
Hb: 978-1-138-05450-9: **£110.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138054509**

Manufactured Gas Plant Remediation

A Case Study



Allen W. Hatheway, Missouri University of Science and Technology (retired); Consultant and **Thomas B. Speight**, Consultant - O'Reilly, Talbot & Okun Associates, Inc.

The assessment, remediation, and redevelopment of manufactured gas plant (MGP) sites pose a significant technical and financial challenge to successor property owners, including municipalities and other public entities undertaking brownfields revitalization, and to their consulting environmental engineers. Due to the toxicity of many coal tar constituents, sites contaminated as a result of gasworks operations pose a significant threat to public health. This book will discuss the history of the manufactured gas industry in Massachusetts (the largest in the US), as well as the toxicity of gasworks waste products, technical challenges in the cleanup process, and the process for site cleanups.

CRC Press
Market: Engineering - Environmental
December 2017: 254 x 178: 1052pp
Hb: 978-1-498-79683-5: **£108.00**
eBook: 978-1-498-79686-6
* For **full contents** and more information, visit: **www.crcpress.com/9781498796835**

Environmental Management towards Sustainability

Prasad Modak, Environmental Management Centre LLP, Mumbai, Maharashtra, India

This book is about understanding challenges we face today in managing our environment and ensuring sustainability of this Planet. It presents the critical state of our resources and threats to resource security due to overconsumption, pollution, and poor and uneven governance. The book provides the reader a deeper understanding on environmental management and concerns regarding sustainability of the planet. In explaining the issues, "nexus" between issues is emphasized that is generally missed in most of the books with examples and visuals. The role of national governments, business organizations, financing institutions, investors, markets and communities is explained using case studies.

CRC Press
Market: Environmental Science
December 2017: 254 x 178: 317pp
Hb: 978-1-498-79624-8: **£110.00**
eBook: 978-1-498-79625-5
* For **full contents** and more information, visit: **www.crcpress.com/9781498796248**

Sustainable Engineering

Principles and Implementation

Catherine Mulligan, Concordia University, Montreal, Quebec, Canada

Due to the constraints on resources and the environment, engineers are faced with new challenges. While it is generally believed that the concepts of sustainable development must be adhered to protect future generations, in practice it is very difficult. Therefore, the focus of this book is to provide both conceptual understanding and practical skills to apply sustainable engineering principles to engineering design. This book provides a comprehensive overview of the interdisciplinary field of sustainability as it applies to engineering. It will describe the tools, protocols and guidelines that are currently available through case studies and examples from around the world.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 300pp
Hb: 978-1-498-77458-1: **£115.00**
eBook: 978-1-498-77459-8
* For **full contents** and more information, visit: **www.crcpress.com/9781498774581**

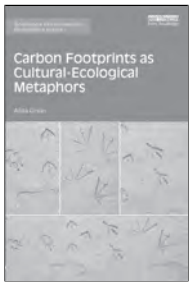
Forestry in the Midst of Global Changes

Edited by **Christine Farcy**

Forestry is an important foundation of the global economy. Today, forestry is a human-dominated ecosystem and as such it faces the many challenges that come with recent changes in urbanization and globalization. This book aims to explain human relations with forest resources from social and political points of view, bringing together the economic, social, and scientific concerns. The focus will be on the impacts of the societal processes in forest management practices across the world highlighting differences in cultural backgrounds and political issues. It will provide a contemporary assessment that is highly relevant and unique.

CRC Press
Market: Environmental Science
October 2018: 235 x 156: 360pp
Hb: 978-1-138-19708-4: **£145.00**
eBook: 978-1-315-28237-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138197084**

Carbon Footprints as Cultural–Ecological Metaphors



Anita Girvan

Series: Routledge Environmental Humanities

Through an examination of carbon footprint metaphors this books demonstrates the ways in which climate change and other ecological issues are culturally and materially constituted through metaphor.

Routledge
Market: Environmental Humanities / Energy
October 2017: 234x156: 200pp
Hb: 978-1-138-65806-6: **£115.00**
eBook: 978-1-315-62100-5
* For **full contents** and more information, visit: **www.routledge.com/9781138658066**

TEXTBOOK • READER

Introduction to Renewable Power Systems and the Environment with R

Miguel F. Acevedo, University of North Texas Department of Geography, Denton, TX

This textbook introduces the fundamentals of renewable electrical power systems examining their direct relationships with the environment. It covers conventional power systems and opportunities for increased efficiencies and friendlier environmental interactions. While presenting state-of-the-art technology, the author uses a practical interdisciplinary approach explaining electrical, thermodynamics, and environmental topics within every chapter. This approach allows students to feel comfortable moving across these disciplines. The added value are the examples of software programs using open source systems which serve as learning tools for the concepts and techniques described in the book.

CRC Press
Market: Energy & Clean Technology
July 2018: 235 x 156: 450pp
Hb: 978-1-138-19734-3: **£89.00**
eBook: 978-1-315-27961-9
* For **full contents** and more information, visit: **www.crcpress.com/9781138197343**

Data-Driven Analytics for the Geological Storage of CO2

Shahab Mohaghegh

Data-driven analytics is enjoying unprecedented popularity among oil and gas professionals. A large number of reservoir engineering problems associated with geological storage of CO2 require development of numerical reservoir simulation models. The numerical models are used to understand the impact of injection of CO2 in saline aquifers, depleted oil and gas reservoirs, as well as CO2-EOR projects. This book discusses application of data-driven analytics to geological storage of CO2. It explains the technology that allows for uncertainty quantification and optimization of CO2 storage projects. It also deals with actual case studies from Australia and the United States.

CRC Press
Market: Engineering - Chemical
June 2018: 235 x 156: 232pp
Hb: 978-1-138-19714-5: **£99.00**
eBook: 978-1-315-28081-3
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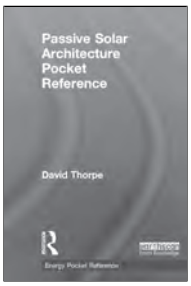
Passive Solar Architecture Pocket Reference



David Thorpe, Writer and consultant, UK

Series: Energy Pocket Reference

This handy pocket reference contains a wealth of information on a range of topics including the principles of passive solar building and passive house, a ten-step design and build strategy, calculating solar irradiance, factors affecting the choice of building materials, passive heating and cooling principles and techniques in different climates, the Passivhaus Standard and natural and augmented lighting and notes on technology and building occupation. The book also includes conversion factors, standards, resources and is peppered throughout with helpful illustrations, equations, explanations, and links to further online resources.

Routledge
Market: Solar energy/renewable energy
November 2017: 186x123: 198pp
Hb: 978-1-138-50128-7: **£110.00**
Pb: 978-1-138-80628-3: **£25.99**
eBook: 978-1-315-75177-1
* For **full contents** and more information, visit: **www.routledge.com/9781138501287**

Innovation and Transition in Energy Demand

Challenges, Opportunities and Future Directions for Energy Efficiency

Edited by **Kirsten Jenkins**, **Debbie Hopkins** and **Cameron Roberts**

Series: Routledge Studies in Energy Transitions

This edited volume will sit at the forefront of research on the transition to a low carbon, low demand economy. Using a series of historical and contemporary case studies combined with theoretical chapters discussing the general dynamics of technological change, it will discuss the potential for using innovation to reduce energy demand, as well as suggest general lessons for the reduction of energy demand internationally. Combining an impressive range of contributions from key thinkers in the field, this book will be of great interest to energy students, scholars and decision-makers.

Routledge
November 2018: 234x156: 264pp
Hb: 978-0-815-35678-3: **£115.00**
eBook: 978-1-351-12726-4
* For **full contents** and more information, visit: **www.routledge.com/9780815356783**

Petroleum Fluid Phase Behavior

Characterization, Processes, and Applications

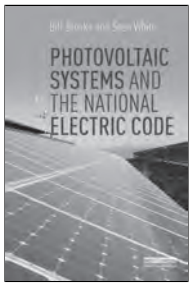
Raj Deo Tewari, **Jaime Moreno Ortiz** and **Abhijit Y. Dandekar**

Series: Emerging Trends and Technologies in Petroleum Engineering

This book deals with complex fluid characterization of oil and gas reservoirs, emphasizing the importance of PVT parameters for practical application in reservoir simulation and management. It covers modeling of PVT parameters, QA/QC of PVT data from lab studies, EOS modeling, PVT simulation and compositional grading and variation. It describes generation of data for reservoir engineering calculations in view of limited and unreliable data and techniques like downhole fluid analysis and photophysics of reservoir fluids. It discusses behavior of unconventional reservoirs, particularly for difficult resources like shale gas, shale oil, coalbed methane, reservoirs, heavy and extra heavy oils.

CRC Press
Market: Engineering - Chemical
December 2018: 235 x 156: 240pp
Hb: 978-1-138-62638-6: **£99.00**
eBook: 978-1-315-22880-8
* For **full contents** and more information, visit: **www.crcpress.com/9781138626386**

Photovoltaic Systems and the National Electric Code



Bill Brooks and **Sean White**, Solar Energy Professor and Consultant, USA

Photovoltaic Systems and the National Electric Code presents a straightforward explanation of the NEC in everyday language. The new book interprets the distinct differences in the different versions of the NEC and clarifies how, where and when the different versions of the code apply, as well as the ways in which they relate specifically to photovoltaic installations. Written by two of the leading authorities and educators in the field, this book will be a vital resource for solar professionals, as well as anyone preparing for a solar certification exam.

Routledge
Market: Environment/Energy
April 2018: 216x138: 152pp
Hb: 978-1-138-08752-1: **£110.00**
Pb: 978-1-138-08753-8: **£25.99**
eBook: 978-1-315-11030-1
* For **full contents** and more information, visit: **www.routledge.com/9781138087521**

2nd Edition • NEW EDITION

Solar Photovoltaic Basics

A Study Guide for the NABCEP Associate Exam

Sean White, Solar Energy Professor and Consultant, USA

This book explains the science of photovoltaics (PV) in a way that most people can understand using the curriculum which reflects the core modules of the NABCEP Associate Exam. You will learn the importance of surveying a site and how to carry out a survey, how to use the tools that determine shading and annual production, and the necessity of safety on site. This new edition of Sean White's highly successful study guide has been updated throughout and reflects recent changes in the new edition of the National Electric Code.

Routledge
Market: Energy/solar energy
June 2018: 186x123: 200pp
Hb: 978-1-138-10285-9: **£90.00**
Pb: 978-1-138-10286-6: **£23.99**
eBook: 978-1-315-10339-6
Prev. Ed Hb: 978-1-138-12846-0
* For **full contents** and more information, visit: **www.routledge.com/9781138102859**

Small Wind Turbines

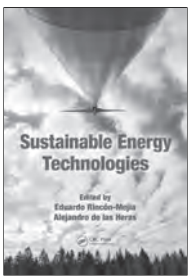
Technology and Application

Edited by **Joe Howe**, University of Central Lancashire, UK and **George Hall**, University of Central Lancashire, UK

Small wind turbines focuses on small scale on-shore wind turbines (SWT) bringing together the most recent accumulated research and developments. Covering the technology, design, planning (including radar problems), grid connection, maintenance and condition monitoring of SWT to give a thorough picture of the sector. The book also covers the economics and future applications of wind energy in a smart energy market.

Routledge
Market: Energy
January 2018: 234x156
Hb: 978-1-138-79994-3: **£50.00**
eBook: 978-1-315-75577-9
* For **full contents** and more information, visit: **www.routledge.com/9781138799943**

Sustainable Energy Technologies



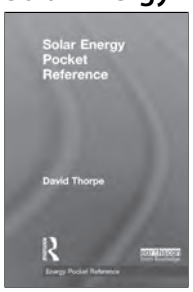
Edited by **Eduardo Rincón-Mejía**, Engineering Department, Mexico State University, Mexico and **Alejandro de las Heras**, Mexico City Autonomous University, Mexico

This book examines all facets of energy use, energy sources, and sustainable energy. It clearly explains the need for an integrated engineering approach to sustainable energies. The emphasis is on coupling and hybridizing systems to implement resilient and efficient alternatives to existing energy systems. It discusses current energy systems, both sustainable as well as those that claim to be sustainable. This book is a result of a collaborative work of many contributors from different backgrounds all focused on a particular approach to better integrate all technologies in a set of sustainable combinations. It includes solved practical problems and graphical content using MATLAB®.

CRC Press
Market: Energy & Clean Technology
November 2017: 254 x 178: 399pp
Hb: 978-1-138-03438-9: **£145.00**
eBook: 978-1-315-26997-9
* For **full contents** and more information, visit: **www.crcpress.com/9781138034389**

2nd Edition • NEW EDITION

Solar Energy Pocket Reference



David Thorpe, Writer and consultant, UK

Series: Energy Pocket Reference

This handy pocket reference provides a wealth of practical information relating to solar energy and solar energy technologies. Topics covered include solar radiation and its detailed measurement, the emissivity and absorption properties of materials, solar thermal energy collection and storage, photovoltaics (both at all scales), solar cooling, and the use of solar energy for desalination and drying. The book also includes conversion factors, standards and constants and is peppered throughout with helpful illustrations, equations and explanations, as well as a chapter making the business case for solar power.

Routledge
Market: Solar energy/renewable energy
November 2017: 186x123: 186pp
Hb: 978-1-138-50120-1: **£105.00**
Pb: 978-1-138-80633-7: **£25.99**
eBook: 978-1-315-75176-4
* For **full contents** and more information, visit: **www.routledge.com/9781138501201**

Transformations in the Petroleum Innovation System

Lessons from Norway and Beyond

Edited by **Taran Thune**, **Ole Andreas Engen** and **Olav Wicken**

Series: Routledge Studies in Energy Transitions

Drawing together a range of key thinkers in this field, this volume addresses the ways in which upstream petroleum industry and its supply industry has changed since the turn of the millennium. It provides recommendations for the development of resource economies in general and petroleum economies in particular. This book will be of great interest to students and scholars of energy policy and economics, natural resource management, innovation studies and the politics of the oil and gas sector.

Routledge
Market: Environment and Sustainability
September 2018: 234x156: 224pp
Hb: 978-1-138-30763-6: **£105.00**
eBook: 978-1-315-14245-6
* For **full contents** and more information, visit: **www.routledge.com/9781138307636**

Asphalt Core Embankment Dams

Kaare Høeg and **Weibiao Wang**

The book briefly describes the various types of embankment dams and their relative merits. This dam type is gaining in popularity, as the recorded field performance is excellent, it is economically very competitive, and the construction period may be shortened compared to many other types of dams. There is now field experience with such dams reaching 170 m in height, and higher dams are under design. Thereafter, the presentation proceeds to concentrate on the design and construction of asphalt core embankment dams. Using asphalt concrete as an impervious core, provides better protection against internal erosion. The book presents many such dams that have been built over the past 50 years.

CRC Press
Market: Civil Engineering
October 2018: 246x174: 200pp
Hb: 978-1-138-03763-2: **£100.00**
eBook: 978-1-315-17778-6
* For **full contents** and more information, visit: **www.crcpress.com/9781138037632**

Hydraulic Engineering V

Proceedings of the 5th International Technical Conference on Hydraulic Engineering (CHE V), December 15-17, 2017, Shanghai, PR China

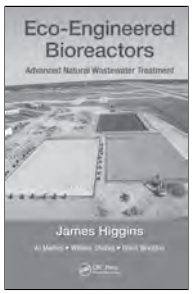
Edited by **Guojun Hong**, **Gongxun Liu** and **Liquan Xie**, Department of Civil Engineering, Tongji University, Shanghai, China

CHE V contains 40 technical papers from the 5th International Technical Conference on Hydraulic Engineering (CHE 2017), held in Shanghai (China) 15—17 December 2017. The conference served as a major forum to promote technological progress and activities, technical transfer and cooperation, and opportunities for engineers and researchers to maintain and improve scientific and technical competence in the field of hydraulic engineering, environment and safety engineering, and other related fields. It will be of interest to academics and engineers involved in Hydraulic Engineering and Environmental Engineering.

CRC Press
Market: Civil Engineering
December 2017: 246x174: 292pp
Hb: 978-0-815-37471-8: **£125.00**
eBook: 978-1-351-24157-1
* For **full contents** and more information, visit: **www.crcpress.com/9780815374718**

Eco-Engineered Bioreactors

Advanced Natural Wastewater Treatment



James Higgins, Environmental Technologies Development Corp., **Al Mattes**, Nature Works Remediation, Corp., **William Stiebel** and **Brent Wootton**, Fleming College

This book provides a detailed understanding of a new, highly innovative natural wastewater treatment method called Engineered Bioreactors (EBs), which have been shown to provide superior removal methods for many kinds of pollutants and contaminants. Treatment using EBs involves passing wastewater through excavated basins (cells) in which microbes are introduced using fixed films on permeable substrate media. The book traces the development of the biological and ecological Engineered Bioreactor technology and presents information on the types, morphologies, testing methods for, designs, microbiology, and operations of EBs of all kinds.

CRC Press
Market: Water Science and Engineering
December 2017: 235 x 156: 385pp
Hb: 978-1-138-05446-2: **£145.00**
eBook: 978-1-315-16681-0
* For **full contents** and more information, visit: **www.crcpress.com/9781138054462**

Blended Learning in Engineering Education: Recent Developments in Curriculum, Assessment and Practice

Ataur Rahman, University of Western Sydney, Pernith, and **Vojislav Ilic**, University of Western Sydney, Pernith,

Recently, off-campus delivery of university courses has become popular. There is an opportunity for delivering engineering courses using a blended learning approach where the best possible components of face-to-face and online delivery can be combined to offer flexible and dynamic engineering courses. This edited book will focus on curriculum development, preparation of course materials, new assessment tools and delivery platform that are needed to make blended and online delivery of engineering and technological courses viable. This book will also cover issues on the development of shareable resources across institutions to make blended learning more effective in engineering education.

CRC Press
Market: Civil Engineering
July 2018: 246x174: 350pp
Hb: 978-1-138-05622-0: **£92.00**
eBook: 978-1-315-16548-6
* For **full contents** and more information, visit: **www.crcpress.com/9781138056220**

Engineering Tools for Environmental Risk Management

4. Risk Reduction Technologies

Edited by **Katalin Gruiz**, Budapest University of Technology, Budapest, Hungary, **Tamas Meggyes**, Research Coordinator, Berlin, Germany and **Eva Fenyvesi**, Cyclolab, Budapest, Hungary

The book deals with nanotechnologies, reactive barriers and zones, soil amelioration and remediation using wastes. General technology descriptions and concrete applications are discussed. Risk reduction strategies and options, decision making, strategy and technologies are dealt with in detail. The evaluation of a technology in advance in aid of decision making and planning, during technology application for the validation of the plan, and after the application for verifying the technology are differentiated and explained in detail. The methodologies of risk assessment, socio-economic assessment, eco-efficiency and life-cycle assessment are presented and demonstrated by examples.

CRC Press
Market: Environmental Engineering
July 2018: 246x174: 350pp
Hb: 978-1-138-00157-2: **£61.99**
eBook: 978-1-315-77875-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138001572**

Engineering Education

Accreditation & Global Mobility

Firoz Alam, RMIT University, School of Engineering, Melbourne, Australia and **Alexandra Kootsookos**, RMIT University, School of Engineering, Melbourne, Australia

This book examines the paradigm of engineering education, the process of accreditation and how it affects graduate global mobility and employability. The book will focus on different accreditation schemes including the Washington Accord and the European Network for Accreditation of Engineering Education and the emerging process of dual accreditation. Important concepts will be demonstrated through case studies. Finally the book will examine the importance of using an outcome-based approach to pedagogy and curriculum development to ensure and demonstrate the achievement of the required graduate attributes.

CRC Press
Market: Engineering Education
October 2018: 246x174: 300pp
Hb: 978-0-815-39601-7: **£89.00**
eBook: 978-1-351-18200-3
* For **full contents** and more information, visit: **www.crcpress.com/9780815396017**

TEXTBOOK • READER

Hydrology and Hydrogeology for Environmental Engineers

Phoolendra Mishra and **Andy Lee**, Los Angeles County Sanitation District, California, USA

Series: Fundamentals of Environmental Engineering

This book will cover topics that are not typically covered in conventional hydrology and hydrogeology books taught in civil engineering programs. It will be a hydrology book tailor-made for environmental engineering students and professionals, and will include specialized topics such as watershed management, stormwater runoff management, groundwater management and protection, hydrologic analysis tools and technologies, and more. It will also include end-of-chapter questions and a solutions manual, and will present the information in a concise way, designed to be taught in a one-semester course.

CRC Press
Market: Water Science & Engineering
June 2018: 235 x 156: 200pp
Hb: 978-1-498-77790-2: **£95.00**
eBook: 978-1-498-77798-8
* For **full contents** and more information, visit: **www.crcpress.com/9781498777902**

Corporate Social Responsibility, Human Rights and the Law

Stéphanie Bijlmakers

Series: Routledge Research in Sustainability and Business

Setting out a possible future scenario for the legalisation of CSR to respect human rights that keeps within the thrust of the United Nations' Guiding Principles on Business and Human Rights (UNGPs) and reflects current realities in the human rights landscape, this book will be of great interest to scholars of business ethics, international human rights law and CSR more broadly.

Routledge
Market: Environment, Sustainability
June 2018: 234x156: 264pp
Hb: 978-0-815-39923-0: **£115.00**
eBook: 978-1-351-17192-2
* For **full contents** and more information, visit: **www.routledge.com/9780815399230**

Corporate Sustainability

Inclusive business approaches contributing to a sustainable world

Jan Jaap Bouma, Erasmus University Rotterdam, the Netherlands and **Teun Walters**, Wittenborg University, The Netherlands

Series: Routledge Research in Sustainability and Business

This book examines corporate sustainability, the role of managers in innovative business models and the need for management accounting information. It explores how sustainability, should, could and is likely to be implemented and integrated in the corporate world. This book will be of great relevance to students, scholars and professionals with an interest in corporate sustainability, social responsibility, environmental management and eco-innovation.

Routledge
Market: Corporate Sustainability/Business Studies/Environmental Studies
January 2018: 234x156: 352pp
Hb: 978-1-138-19375-8: **£95.00**
Pb: 978-1-138-19376-5: **£29.99**
eBook: 978-1-315-63918-5
* For **full contents** and more information, visit: **www.routledge.com/9781138193758**

TEXTBOOK • READER

Green Supply Chain Management

Haris Achillas, International Hellenic University, Greece, **Dimitris Aidonis**, Technological Educational Institute of Central Macedonia, Greece, **Dionysis Bochtis**, Aarhus University, Denmark and **Dimitris Folinas**, Technological Educational Institute of Central Macedonia, Greece

This book combines chapter summaries, boxed case studies, annotated further readings, discussion questions and illustrations in order to provide a strategic overview of sustainable supply chain management, and shed light on the theoretical background and principles of the topic. Accessible and student-friendly, *Green Supply Chain Management* covers the following thematic areas: introduction to green supply chain management; benefits of green supply chain management; impact of green supply chain in supply chain operations; challenges in the implementation of green supply chain management in real life companies; and contemporary issues of green supply chain.

Routledge
Market: Sustainable Business/Sustainability Studies
June 2018: 234x156: 256pp
Hb: 978-1-138-64460-1: **£85.00**
Pb: 978-1-138-64461-8: **£29.99**
eBook: 978-1-315-62869-1
* For **full contents** and more information, visit: **www.routledge.com/9781138644601**

Sustainability Certification Schemes in the Agricultural and Natural Resource Sectors

Outcomes for Society and the Environment

Edited by **Melissa Vogt**, Universidad de Habana, Cuba, **Malin Jonell**, Stockholm Resilience Center, Sweden and **Peter Luetchford**, University of Sussex, UK

Series: Earthscan Studies in Natural Resource Management

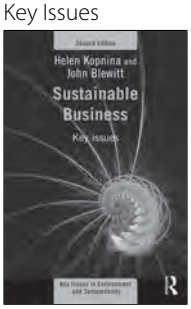
Certification schemes set standards through intra-market private and multi-stakeholder mechanisms regulated voluntarily rather than legislatively. This book provides a balanced review of a range of international certification schemes across various agricultural and natural resource sectors. These include biodiversity, water quality, animal welfare, fisheries and seafood, biochar, forest products, coffee, cacao, biofuels and jewellery from sustainable mining. It is aimed at advanced students, researchers and professionals in agribusiness, natural resource economics, sustainability assessment and corporate social responsibility.

Routledge
Market: Environment, Business, Agriculture
October 2018: 234x156: 256pp
Hb: 978-1-138-57297-3: **£115.00**
eBook: 978-0-203-70173-7
* For **full contents** and more information, visit: **www.routledge.com/9781138572973**

2nd Edition • TEXTBOOK • READER

Sustainable Business

Key Issues



Helen Kopnina, University of Amsterdam, The Netherlands and **John Blewitt**, Aston University, UK

Series: Key Issues in Environment and Sustainability

Sustainable Business: Key Issues is the first comprehensive introductory-level textbook to address the interface between environmental challenges and business solutions to provide an overview of the basic concepts of sustainability, sustainable business, and business ethics. This textbook is essential reading for students of business, management and sustainability courses. It is written in an engaging and accessible style, with each chapter including case studies, discussion questions, end of chapter summaries and suggestions for further reading. This new edition is updated throughout, and contains an additional chapter on the circular economy.

Routledge
Market: Environment, Sustainability, Business
May 2018: 234x156: 296pp
Hb: 978-1-138-08788-0: **£110.00**
Pb: 978-1-138-08790-3: **£34.99**
eBook: 978-1-315-11017-2
Prev. Ed Hb: 978-0-415-73950-4
* For **full contents** and more information, visit: **www.routledge.com/9781138087880**

Sustainable Innovation and Impact

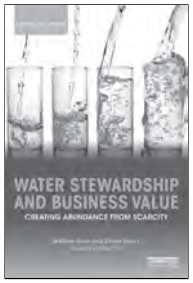
Edited by **Cary Krosinsky** and **Todd Cort**

Environmental Innovation and Impact will provide a roadmap of the many critical pathways of positive change emerging to achieve modern day societal success, including rapidly evolving corporate and investment innovation and impact strategy considerations. Exploring innovation around the future of energy, electricity and related technologies, as well as transportation and buildings efficiency, Krosinsky and Cort consider ideas framed around the circular economy, operational and supply chain strategies and the global economy. This book will be of great relevance to students, scholars and professionals with an interest in innovation, economics and sustainability more broadly.

Routledge
Market: Sustainable Business/Environmental Economics
June 2018: 234x156: 248pp
Hb: 978-0-815-38674-2: **£110.00**
Pb: 978-0-815-38677-3: **£36.99**
eBook: 978-1-351-17482-4
* For **full contents** and more information, visit: **www.routledge.com/9780815386742**

Water Stewardship and Business Value

Creating Abundance from Scarcity



William Sarni, Deloitte Consulting LLP, USA and **David Grant**, SABMiller PLC, UK

Series: Earthscan Water Text

The tangible value of increased water efficiency and reuse/recycling and improved social license to operate are moving more companies to adopt water stewardship strategies. This book frames the business value of water stewardship, including brand value, to stakeholders including consumers, customers, investors and employees. The key aim is to establish the linkage and value from an integrated water stewardship and business strategy and an approach for companies to follow.

Routledge
Market: Environment & Sustainability / Business
March 2018: 234x156: 136pp
Hb: 978-1-138-64254-6: **£110.00**
Pb: 978-1-138-64255-3: **£34.99**
eBook: 978-1-315-62725-0
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TEXTBOOK • READER

Environmental Economics

Concepts, Methods and Policies, 3rd ed

Dodo J. Thampapillai and **Matthias Ruth**

Environmental Economics explores the ways in which economic theory and its applications, as practised and taught today, can be modified to explicitly accommodate the goal of sustainability and the vital role played by environmental capital. Updated and revised throughout and rich in pedagogical features including key concepts boxes and revision questions at the end of each chapter, this new edition will be a vital resource for upper-level undergraduate and postgraduate students studying environmental economics, ecological economics and environmental policy.

Routledge
Market: Environment/Economics/Policy
July 2018: 234x156: 368pp
Hb: 978-1-138-06003-6: **£100.00**
Pb: 978-1-138-06005-0: **£34.99**
eBook: 978-1-315-16324-6
* For **full contents** and more information, visit: **www.routledge.com/9781138060036**

Mainstreaming Natural Capital and Ecosystem Services into Development Policy

Edited by **Pushpam Kumar**, UNEP, Kenya, **Paulo A.L.D Nunes**, UNEP, Kenya and **S. Ersin Esen**, UNEP, Kenya

This book highlights the latest advances in the science and practice of using ecosystem services to inform decisions in the context of the developing countries. Detailed case studies are presented in which the understanding of ecosystem services values has successfully informed decisions, including examples from Chile, Morocco, South Africa, Tanzania, Trinidad and Tobago, Vietnam and the Aral Sea in Central Asia. These provide mechanisms for policy makers to incentivize protection and discourage degradation of ecosystems and the services they provide.

Routledge
Market: Economics / Environment & Sustainability / Development Studies
June 2018: 234x156: 320pp
Hb: 978-1-138-69311-1: **£95.00**
eBook: 978-1-315-53121-2
* For **full contents** and more information, visit: **www.routledge.com/9781138693111**

Environmental Performance Auditing in the Public Sector

A Global Stocktake Enabling Sustainable Development

Awadhesh Prasad

Series: Routledge Explorations in Environmental Studies

Environment and sustainable development is a matter of global concern and trillions of dollars of mostly public money are invested every year in domestic and international policies and programs. The effectiveness of these policies and programs are examined through performance audits which heavily influence their implementation. Despite this, the field has received very little academic attention. This book takes a closer look at performance auditing of public sector environmental policies and programs.

Routledge
Market: Environment / Sustainability
August 2018: 234x156: 192pp
Hb: 978-1-138-57462-5: **£115.00**
eBook: 978-1-351-27348-0
* For **full contents** and more information, visit: **www.routledge.com/9781138574625**

Sustaining Prosperity, Nature and Wellbeing

What Do the Indicators Tell Us?

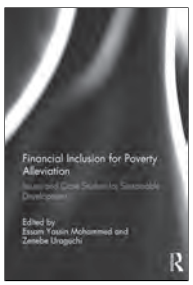
Peter L.P. Bartelmus

This book begins by assessing the validity of available data, indicators and indices in decision and policy-making. It goes on to demonstrate how indicators and their aggregation could facilitate assessing the micro-macro link of decision-making and help revise policy priorities around environmental and sustainability issues. Confronting the persisting polarization of environmentalists and economists, this book will be of great relevance to students, scholars and professionals with an interest in environmental and ecological economics, sustainability indicators and environmental policy.

Routledge
Market: Environment/Economics
June 2018: 234x156: 176pp
Hb: 978-0-815-35170-2: **£110.00**
Pb: 978-0-815-35174-0: **£36.99**
eBook: 978-1-351-14060-7
* For **full contents** and more information, visit: **www.routledge.com/9780815351702**

Financial Inclusion for Poverty Alleviation

Issues and Case Studies for Sustainable Development



Edited by **Essam Yassin Mohammed**, International Institute for Environment and Development, UK and **Zenebe Bashaw Uraguchi**, HELVESTAS Swiss Intercooperation, Switzerland

More than one billion people still live below the poverty line – most of them in South Asia and Sub-Saharan Africa. Financial inclusion is a major issue, as more than three-quarters of the numbers of poor people do not have access to financial products and services, such as bank accounts, affordable and suitable loans, and insurance. The key objective of this book is to provide practical case studies of financial inclusion, with examples from Africa, Asia and Latin America.

Routledge
Market: Development Studies / Economics / Business
December 2017: 234x156: 260pp
Hb: 978-1-138-10275-0: **£110.00**
Pb: 978-1-138-10276-7: **£36.99**
eBook: 978-1-315-10345-7
* For **full contents** and more information, visit: **www.routledge.com/9781138102750**

Stranded Assets and the Environment

Risk, Resilience and Opportunity

Edited by **Ben Caldecott**, University of Oxford, UK

Series: Routledge Explorations in Environmental Studies

Drawing on the work of eminent scholars and practitioners from a range of disciplines, and a broad spectrum of case studies, this book sets itself the ambitious goal of formulating a comprehensive and holistic understanding of stranded assets. The result will be the first complete exposition of the different dimensions and facets of stranded assets from environmental, sustainability, and climate change perspectives. The book will provide much needed clarity as the discourse on stranded assets gathers further momentum.

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Domestic Environmental Labour

An Ecofeminist Perspective on Making Homes Greener

Carol Farbotko, Ecosystem Sciences Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia

Series: Routledge Explorations in Environmental Studies

This book addresses the question of domestic ecological labour from an ecofeminist perspective, creating new ground at the intersection of critical labour, environmental, and gender studies. It explores the proposition that the practice and politics of domestic labour being undertaken in the name of 'the environment' needs to be better recognised, understood and accounted for as a phenomenon shaped by, and shaping of, gender, class and spatial relations.

Routledge
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Ecological Masculinities

Theoretical Foundations and Practical Guidance

Martin Hultman and **Paul M. Pulé**

Series: Routledge Studies in Gender and Environments

The economic, social and political benefits of industrialisation come at a terrible cost to both women and men and indeed to all of life on Earth, however it is modern Western masculinities and men who are the main beneficiaries of industrialisation and also the primary proponents of this destructive behaviour. The book highlights these costs in order to bring home to modern Western men and masculinities the importance of shifting away from industrial masculinities and, beyond the reformist tendencies of ecomodern masculinities, towards deeper, greener, pluralised and ecologised masculinities.

Routledge
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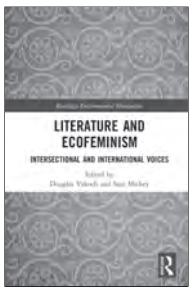
Literature and Ecofeminism

Intersectional and International Voices



Edited by **Douglas A. Vakoch** and **Sam Mickey**

Series: Routledge Environmental Humanities

This bookexplores the intersections of sexuality, gender, embodiment, and the natural world articulated in literary works from Shakespeare through to contemporary literature. Bringing together essays from a global group of contributors, this volume draws on American literature, as well as Spanish, South African, Taiwanese, and Indian literature, in order to further the dialogue between ecofeminism and ecocriticism and demonstrate the ongoing relevance of ecofeminism for facilitating critical readings of literature. In doing so, the book opens up multiple directions for ecofeminist ideas and practices, as well as new possibilities for interpreting literature.

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Ethical aspects

Edited by **Friedo Zölzer**, University of South Bohemia, Czech Republic and **Gaston Meskens**

Series: Routledge Studies in Environment and Health

Bringing together work from experts across a range of sub-disciplines of environmental health, this collection of essays discusses the ethical implications of environmental health research and its application, presented at the 3rd International Symposium on Ethics of Environmental Health held in August 2016 in the Czech Republic. In doing so, it builds upon the insights and ideas put forward in the first volume of *Ethics of Environmental Health*, published by Routledge in early 2017. This volume will be of great interest to students and scholars of environmental health, applied ethics, environmental ethics, medical ethics and bioethics.

Routledge
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Equality in Water and Sanitation Services

Edited by **Oliver Cumming**, London School of Hygiene and Tropical Medicine, UK and **Thomas Slaymaker**, UNICEF, USA

Series: Earthscan Water Text

The progressive reduction of inequalities is now an explicit focus of the Sustainable Development Goal (SDG) targets, adopted in 2015, for universal access to drinking water, sanitation and hygiene (WASH). This book provides an authoritative textbook for students, and reference for policy-makers and practitioners interested in reducing inequalities in access to WASH services. Four key areas are addressed; background to the human right to water and development goals; dimensions of inequality; case studies in delivering water and sanitation equitably; and monitoring progress in reducing inequality.

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A Leadership Imperative

Carrie R. Rich, Vision Translation, Inova Health System, USA, **J. Knox Singleton**, Inova Health System, USA and **Seema S. Wadhwa**, Urban Ltd. and Inova Health System, USA

Fully updated in its second edition, this book challenges healthcare leaders to think through the implications of our decisions from fiscal, societal and environmental perspectives. It links health values with sustainability drivers in order to enlighten leadership about the value of sustainability as we move toward a new paradigm of health.

Routledge
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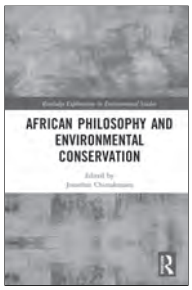

Edited by **Jonathan O. Chimakonam**

Series: Routledge Explorations in Environmental Studies

This book is about the unconcern for, and subjugation of, the environment by philosophy in Africa. The issue of environment is still very much neglected by governments, corporate bodies and academics in the sub-Saharan Africa. The entrenched traditional world-views which privilege men over women and humans over the environment make it difficult for the modern day challenges posed by the neglect of these issues to become obvious.This book will be of great interest to students and scholars of Philosophy, African, Environmental and Gender Studies.

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TEXTBOOK • READER

Food, Animals, and the Environment

An Ethical Approach

Christopher Schlottmann, New York University, USA and **Jeff Sebo**, New York University, USA

Agriculture poses special challenges for moral theory by virtue of being characterized by many kinds of value. Using a primarily ethical perspective,this book introduces the major concepts and values at the intersection of food and the environment, emphasizing the unique place of animals. Itis designed to give students both the critical thinking tools and basic concepts and information necessary to analyse the many challenges and values concerning food and the environment. This unique and accessibly written textbook will be useful reading for undergraduate students of Applied Ethics, Food Studies, Animal Studies and Environmental Studies.

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Moral Responsibility and Risk in Modern Society

Examples from emerging technologies, public health and environment

Jessica Nihlén Fahlquist, Uppsala University, Sweden

Series: Earthscan Risk in Society

This book examines concepts and notions of moral responsibility in relation to health risks, technological risks and environmental risks. It combines philosophical discussion of different concepts and notions of responsibility with context-specific applications in the areas of health, technology and environment. It will be of great interest to students and scholars of environmental ethics, bioethics, public health ethics, engineering ethics, philosophy of risk and moral philosophy.

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Plant Ethics

Principles, Norms, and Applications

Edited by **Angela Kallhoff**, **Marcello Di Paola**, Luiss University, Italy and **Maria Schörgenhumer**

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Large parts of our world are filled with plants, and human life depends on, interacts with, affects and is affected by plant life in various ways. Yet plants have not received nearly as much attention from philosophers and sustainability thinkers as they deserve. This publication brings together for the first time, and in an interdisciplinary spirit, contemporary approaches to the study of plants provided by international scholars of established reputation, from both philosophy and relevant sustainability fields. It will be of great interest to students and scholars of Philosophy; Environmental and Sustainability studies.

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Energy, Resource Extraction and Society

Impacts and Contested Futures

Edited by **Anna Szolucha**, **Stale Knudsen** and **Havard Haarstad**

Series: Routledge Studies of the Extractive Industries and Sustainable Development

Energy is central to the fabric of society. This book addresses the social effects of resource extraction and energy projects, including oil, coal, wind power, gas (fracking) and electrification, and their significance for contested energy and social futures. Including case studies from Europe, North America and developing countries, it describes the effects on local communities and how these are often transformed into citizen engagement, protest and resistance.

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Mining and Sustainable Development

Current Issues

Edited by **Sumit. K. Lodhia**, Univeristy of South Australia Business School, Australia

Series: Routledge Studies of the Extractive Industries and Sustainable Development

Mining is a transformative activity which has numerous economic, social and environmental impacts. This book addresses the changing role of minerals in society and how mining can be made more sustainable. It covers the social acceptance of mining, critical and contemporary debates such as mining and indigenous peoples and transit worker accommodation, corporate matters such as sustainability reporting and taxation, and sustainability solutions through an emphasis on renewable energy and shared-used infrastructure.

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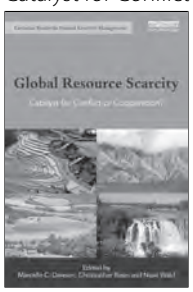
Global Resource Scarcity

Catalyst for Conflict or Cooperation?



Edited by **Marcelle C. Dawson**, University of Otago, New Zealand, **Christopher Rosin**, University of Otago, New Zealand and **Nave Wald**, University of Otago, New Zealand

Series: Earthscan Studies in Natural Resource Management

A common perception of global resource scarcity holds that it is inevitably a catalyst for conflict among nations. Yet, paradoxically, incidents of such scarcity underlie some of the most important examples of international cooperation. This volume examines the potential for the experience of scarcity to promote cooperation in international relations and diplomacy beyond the traditional bounds of the interests of competitive nation states. It focuses on food, water, mineral, and ocean resources.

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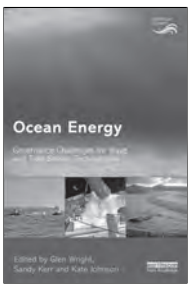
Ocean Energy

Governance Challenges for Wave and Tidal Stream Technologies



Edited by **Glen Wright**, Institute for Sustainable Development and International Relations, France, **Sandy Kerr**, Heriot-Watt University, UK and **Kate Johnson**, Heriot-Watt University, UK

Series: Earthscan Oceans

Energy from wave and tidal power is a key component of current policies for renewable sources of energy. This book provides the first comprehensive exploration of legal, economic, and social issues related to the emerging ocean energy industry, in particular wave and tidal energy technologies. While offshore wind energy, sited in the oceans but not strictly derived from the ocean, is not the primary focus of the book, there is also discussion of the similarities and differences between offshore wind and wave and tidal power policy dimensions.

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Local Consumption and Global Environmental Impacts

Accounting, Trade-offs and Sustainability

Kuishuang Feng, University of Maryland, USA and **Klaus Hubacek**, University of Maryland, USA

Series: Routledge-SCORAI Studies in Sustainable Consumption

As a result of globalization, goods and services consumed in one country are often produced in other countries and exchanged via international trade. This book describes how local consumption is increasingly met by global supply chains, often involving large geographical distances and leading to global environmental impacts, such as pollution, climate change, water scarcity, and deforestation and other land conversions. The authors provide an overview of key methods, including Multi-Regional Input-Output analysis and Life Cycle Assessment. Subsequent chapters connect local consumption to the global consequences of different environmental issues.

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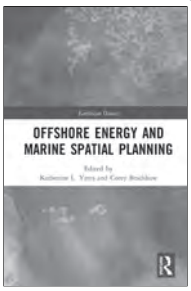
Offshore Energy and Marine Spatial Planning



Edited by **Katherine L. Yates**, Flinders University, Australia and **Corey Bradshaw**, University of Adelaide, Australia

Series: Earthscan Oceans

Offshore energy generation is a rapidly growing sector, competing for space in an already busy seascape. This book brings together the ecological, economic and social implications of the spatial conflict this growth entails. Covering all energy-generation types (wind, wave, tidal, oil, and gas), it explores the direct and indirect impacts the growth of offshore energy generation has on both the marine environment and the existing uses of marine space.

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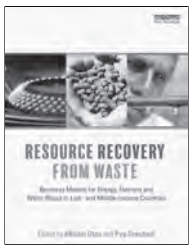
Resource Recovery from Waste

Business Models for Energy, Nutrient and Water Reuse in Low- and Middle-income Countries



Edited by **Miriam Otoo** and **Pay Drechsel**, International Water Management Institute, Sri Lanka

Humans generate millions of tons of waste every day. This book shows how resource recovery and reuse (RRR) could create livelihoods, enhance food security, support green economies, reduce waste and contribute to cost recovery in the sanitation chain. It provides a compendium of success stories of resource recovery and reuse, presenting for energy, nutrient and water recovery innovative business models based on approximately seventy empirical cases from around the world, each described and evaluated in a systematic way. The focus is on municipal or agro-industrial waste and models with potential for large-scale, out-scale and up-scaling.

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Market: Environment & Sustainability
February 2018: 246x189: 832pp
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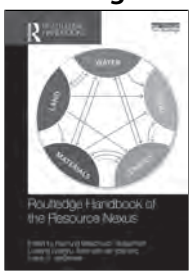
Routledge Handbook of the Resource Nexus



Edited by **Raimund Bleischwitz**, University College London, UK, **Holger Hoff**, **Catalina Spataru**, University College London, UK, **Ester van der Voet**, Universiteit Leiden, Netherlands and **Stacy D. VanDeveer**, University of Massachusetts, USA

In recent years the concept of the resource "nexus" has been hotly debated and now widely adopted in research and policy circles as a powerful new way of understanding the relationships between multiple resources and their sustainable management. These include particularly water, food and energy. This comprehensive Handbook presents a detailed international review of current knowledge and thinking on the resource nexus from an inter-disciplinary perspective. It will serve as an essential reference text, source book and state-of-the-art (or science) on this increasingly important topic.

Routledge
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Routledge Handbook of the Study of the Commons

Edited by **Blake Hudson**, **Jonathan Rosenbloom** and **Daniel H Cole**

The study of the commons has expanded dramatically since the late 1960s and the subsequent work of Ostrom popularized the dilemma faced by users of common pool resources. This comprehensive Handbook serves as a unique synthesis and resource for understanding how analytical frameworks developed within the literature assist in understanding the nature and management of commons resources. It is inter-disciplinary and will appeal to a wide range of advanced students in environmental studies, natural resources, law, economics, politics, geography and sociology.

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The Water-Food-Energy Nexus

power, politics and justice

Jeremy Allouche, **Carl Middleton** and **Dipak Gyawali**

Series: Pathways to Sustainability

This book unpacks and challenges 'the nexus' concept, exploring how it recasts old debates around water storage and large-scale food/energy production in a new crisis narrative of scarcity and insecurity. It argues that the convergence of security and sustainability perspectives in dominant framings of 'the nexus' is governed by stability- and equilibrium-thinking, reinforcing existing "control-paradigm" pathways. This book will be of interest to academic researchers, policy makers and practitioners in the field of international development studies, envionmental politics, science and technology studies and international relations.

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Water Ethics

A Values Approach to Solving the Water Crisis

David Groenfeldt, Water-Culture Institute, USA

Series: Earthscan Water Text

This book introduces the idea that ethics are an intrinsic dimension of any water policy, program, or practice, and that understanding what ethics are being acted out in water policies is fundamental to an understanding of water resource management. Fully revised and updated, the new edition continues to consolidate the new field of "water ethics" as a recognized dimension of water-related decision-making, and to provide an introduction to this topic for students of environmental ethics and water governance and management.

Routledge
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Water for Food Security, Nutrition and Social Justice

Lyla Mehta, **Theib Oweis**, **Claudia Ringler**, **Barbara Schreiner** and **Shiney Varghese**

Series: Pathways to Sustainability

This book is the first comprehensive effort to bring together Water, Food Security and Nutrition (FSN) in a way that goes beyond the traditional focus on irrigated agriculture. Apart from looking at the role of water and sanitation in human wellbeing, it proposes alternative and more locally appropriate ways to address complex water management and governance challenges from local to global against a backdrop of growing uncertainties. It argues for the need to improve policy coherence and is original in making a case for strengthening the relationship between the rights to water and food, especially for marginalised women and men.

Routledge
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July 2018: 234x156: 192pp
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Water, Climate Change and the Boomerang Effect

Unintentional Consequences for Resource Insecurity

Edited by **Larry Swatuk**, University of Waterloo, Canada and **Lars Wirkus**, Bonn International Centre for Conversion, Germany

Series: Earthscan Studies in Water Resource Management

This book addresses the policy debates surrounding water resources and climate actions through both theoretical and comparative case studies. It develops the 'boomerang effect' concept and sets it in relation to other conceptual tools for understanding the mixed outcomes of state-led climate change action, for example 'backdraft' effect and 'maldevelopment'. It also presents case studies illustrative of the consequences of ill-considered state-led policy in the water sector from around the world.

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Water, Technology and the Nation-State

Edited by **Filippo Menga**, The University of Reading, UK and **Erik Swyngedouw**, University of Manchester, UK

Series: Earthscan Studies in Water Resource Management

Governments tend to perceive and portray water as a national asset. Just as space, territory and society can be socially and politically constructed, so can water. This book delves into the complex and often hidden connection between water and the processes of state-building and nation-building. It consists of fifteen empirically grounded chapters from various disciplinary perspectives, including geography, environmental history, politics and international relations, and anthropology. The case studies cover a diverse range of geographical areas and countries including China, Cyprus, Ethiopia, France, Greece, India, Mexico, Syria and Uzbekistan.

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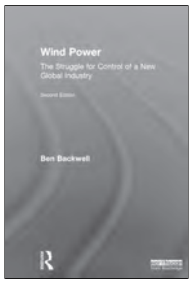
Wind Power

The Struggle for Control of a New Global Industry



Ben Backwell, Editor in Chief, Recharge

Wind Power examines the challenges the sector faces as it competes for influence and investment with the fossil fuel industry across the globe. Over the course of this volume, Backwell analyses the industry climbers, the investment trends and the technological advancements that will define the future of wind energy. This second edition is revised throughout and contains new material on frontier wind markets and industry consolidation, as well as well as the cost reductions and market gains that led to 2015 being a landmark year for the big wind turbine companies.

Routledge
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Zero Waste

Reconsidering Waste Management for the Future

Atiq Uz Zaman, Curtin University, Australia and **Tahmina Ahsan**

Series: Routledge Studies in Waste Management and Policy

Drawing on a diverse range of case studies, this book explores why urban waste management systems still remain a major challenge for almost all cities around the world. The book considers waste prevention through the zero waste model, in which resources are utilized and consumed with minimum environmental degradation. Providing a strategic zero waste framework and an evaluation tool to measure waste management performance aimed towards zero waste goals, this book will be of great relevance to students, scholars, practitioners and policymakers with an interest in waste management, sustainable consumption, urban planning and sustainable development.

Routledge
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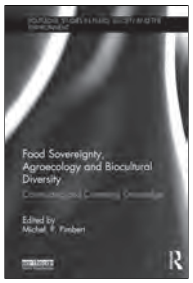
Food Sovereignty, Agroecology and Biocultural Diversity

Constructing and contesting knowledge



Edited by **Michel. P. Pimbert**, Coventry University, UK

Series: Routledge Studies in Food, Society and the Environment

Contestations over knowledge – and who controls its production – are a key focus of social movements and other actors that promote food sovereignty, agroecology and biocultural diversity. This book critically examines the kinds of knowledge and ways of knowing needed for food sovereignty, agroecology and biocultural diversity, based on principles of equity, diversity, social justice and ecological sustainability. It thus contributes to the democratisation of knowledge and power in the domain of food, environment and society.

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Participatory Media in Environmental Communication

Enabling voices on the periphery

Usha Sundar Harris, Macquarie University, Australia

Series: Routledge Studies in Environmental Communication and Media

This book provides a comprehensive understanding of participatory media practice and its potential within the field of environmental communication. The book fills a significant gap in our understanding of participatory media as a dialogic and effective tool for raising awareness and facilitating discussion of environmental issues in communities where these issues are now critical. This is a valuable resource for researchers, scholars and students in the area of communication and media studies including environmental communication and digital media, cultural studies, environmental sciences, research methodologies, and development and community practitioners.

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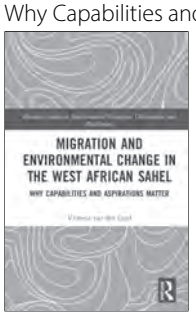
Migration and Environmental Change in the West African Sahel

Why Capabilities and Aspirations Matter



Victoria van der Land

Series: Routledge Studies in Environmental Migration, Displacement and Resettlement

Based on qualitative and quantitative data from study areas in Mali and Senegal, this book examines the relationship between population dynamics, livelihoods and environment in the Sahel region, focussing specifically on motives for migration. Critiquing the assumption that environmental stress is the dominating migration driver, the author demonstrates the important role of individual aspirations and social processes, such as education opportunities and the pull of urban lifestyles.

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Public Participation, Science and Society

Tools for Dynamic and Responsible Governance of Research and Innovation

Mikko Rask, **Saulė Mačiukaitė-Žvinienė**, **Loreta Tauginienė**, **Vytautas Dikčius**, **Kaisa Matschoss**, **Timo Aarrevaara** and **Luciano d'Andrea**

The field of public engagement is developing fast, with phenomena such as citizen science and crowdsourcing extending the resource base of research, stimulating innovation, and making science more accessible to the general population.

This volume presents the findings of a three-year international study on innovative public engagement. The resulting work studies the characteristics and trends of innovative public engagement through a global sample of 38 case studies. Illustrated by best practice cases, the authors identify characteristics which contribute to successful public engagement.

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Participatory Action Research and the Environment

The BGreen Project in the US and Bangladesh

Fadia Hasan, University of Massachusetts, USA

Series: Routledge Studies in Environmental Communication and Media

This book focusses on the work of The BGreen Project (BGreen): a participatory action research platform that carries out youth-focussed activities in Bangladesh and the United States with the aim of addressing environmental issues via community engagement. By analysing and unpicking the architecture of BGreen, Hasan teases out the key factors that are required for the continued momentum of environmentally focused, community-academic partnerships projects in order to present a workable model that could be applied elsewhere.

Routledge
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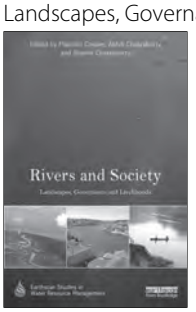
Rivers and Society

Landscapes, Governance and Livelihoods



Edited by **Malcolm Cooper**, Ritsumeikan Asia Pacific University, Japan, **Abhik Chakraborty**, Izu Peninsula Geopark Promotion Council, Japan and **Shamik Chakraborty**, United Nations University, Japan

Series: Earthscan Studies in Water Resource Management

Rivers and their watersheds constitute some of the most dynamic and complex landscapes. This book brings together empirical research on the changing conditions of a range of river basin environments, including the history and culture of local societies living in these river basins. It provides theoretical insights on the patterns and nature of the interaction between rivers and their use by human communities, with a wide range of case studies from Africa, Asia, Australia, Europe and the Americas.

Routledge
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Rural Communities Surviving Migration

Village Governance, Environment and Cultural Survival in Indigenous Mexico

Edited by **James Robson**, **Daniel Klooster** and **Jorge Hernández-Díaz**

Series: Routledge Studies in Environmental Migration, Displacement and Resettlement

Building on empirical work in Oaxaca, Mexico, *Communities Surviving Migration* identifies how out-migration might impact rural communities in other global strongholds of biocultural diversity. Responding to a necessity for more detailed analyses and reporting on migration and environmental change, especially in contexts where rural communities, livelihoods and biodiversity are interconnected, this volume will be of great interest to students and scholars of environmental migration, development studies, population geography, and Latin American studies.

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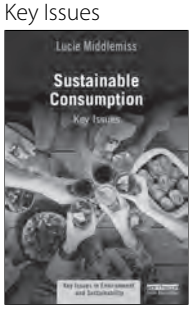
Key Issues



Lucie Middlemiss

Series: Key Issues in Environment and Sustainability

Sustainable Consumption: Key Issues provides a concise introduction to the concept of sustainable consumption, and to the contribution of the key disciplines that are active in this highly interdisciplinary field. The book critiques these various disciplinary contributions, and the ways in which policy and practice have dealt with sustainable consumption. Exploring the ways in which critical thinking and an understanding of sustainable consumption can be used in daily life as well as in professional practice, this book is essential reading for students, academics, professionals and policy-makers with an interest in this growing field.

Routledge
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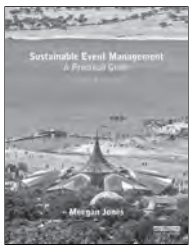
A Practical Guide



Meegan Jones, The Green Event Guide, Australia

Written by a leading trainer and consultant, this book is a practical, step-by-step guide taking readers through the key aspects of how to identify, evaluate and manage event sustainability issues and impacts - for events of any style and scale, anywhere in the world.

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Water, Creativity and Meaning

Multidisciplinary understandings of human-water relationships

Edited by **Katherine Jones** and **Elisabeth Roberts**

Series: Earthscan Studies in Water Resource Management

This stimulating volume brings together diverse approaches to exploring the human relationship with water, and adds to the current zeitgeist of writing about water by expanding the discussion about this vital substance. Chapters focus on creative explorations and explorations of creativity in relation to developing these understandings, including concepts such as hydrocitizenship and responses to drought and flooding. It draws on art, literature and environmental humanities and well as geography and sociology.

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Cities and the Knowledge Economy

Promise, Politics and Possibilities

Tim May, Professor of Social Science Methodology in the Sheffield Methods Institute, University of Sheffield. and **Beth Perry**, Professorial Fellow in the Urban Institute, University of Sheffield.

Series: The Earthscan Science in Society Series

This book provides an in-depth, interdisciplinary, international and comparative examination of the relationship between knowledge and urban development in the contemporary era. Through the lenses of promise, politics and possibility, it examines how different cities have sought to realize knowledge-based urban development and what this reveals about the relationship between politics, capitalism and knowledge production in cities. Drawing on a range of examples from cities around the world, the book reflects on these possibilities and asks what roles the practice of 'active intermediation', the university and a critical and engaged social scientific practice can all play in this process.

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Housing for Degrowth

Principles, Models, Challenges and Opportunities

Edited by **Anitra Nelson**, RMIT University, Australia and **François Schneider**

Series: Routledge Environmental Humanities

This collection of diverse responses engages with various challenges posed by housing for degrowth, across both the Global North and South, including housing justice and sufficiency, development and sustainability. Activist-scholar contributors offer case studies that engage with theoretical perspectives and provide critiques of various approaches to housing for degrowth. The book explores many environmental, cultural and economic issues in the context of interdisciplinary fields such as urbanism, ecological economics, environmental justice, housing studies and policy and planning studies and policy. As such, it will appeal to students and scholars across a wide range of disciplines.

Routledge
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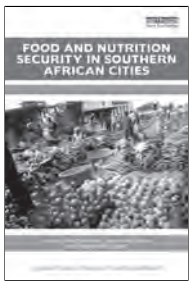
Food and Nutrition Security in Southern African Cities



Edited by **Bruce Frayne**, University of Waterloo, Canada, **Jonathan Crush**, Wilfrid Laurier University, Canada and **Cameron McCordic**, Wilfrid Laurier University, Canada

Series: Routledge Studies in Food, Society and the Environment

Urban population growth is extremely rapid across Africa and this book places *urban* food and nutrition security firmly on the development and policy agenda. Using original data from eleven cities in nine countries in Southern Africa, it shows that current efforts to address food poverty in Africa that focus entirely on small-scale farmers, to the exclusion of broader socio-economic and infrastructural approaches, including food access, are misplaced and will remain largely ineffective.

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Just Green Enough

Urban Development and Environmental Gentrification

Edited by **Winifred Curran** and **Trina Hamilton**

Series: Routledge Equity, Justice and the Sustainable City series

The editors of this volume developed a strategy called "just green enough" based on field work in Greenpoint, Brooklyn, to describe a plan that uncouples environmental cleanup from high-end residential and commercial development. A just green enough strategy focuses explicitly on social justice and environmental goals as defined by local communities, those people who have been most negatively affected by environmental disamenities, with the goal of keeping those people in place to enjoy any environmental improvements.

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Global Planning Innovations for Urban Sustainability

Edited by **Sebastien Darchen** and **Glen Searle**, University of Queensland and University of Sydney, Australia

Series: Advances in Urban Sustainability

This edited volume interrogates the trade-offs made between the three arenas of sustainability in the implementation of innovative solutions in cities. The book draws on a group of international case studies, including Amsterdam in the Netherlands, Guangzhou and Yichang in China, Yogyakarta in Indonesia and Medellín in Colombia. Each case study provides key facts about the city, presents the particular urban sustainability challenge and the planning innovation process and examines the trade-offs between social, environmental and economic sustainability. In the final chapter, the book analyses to what extent planning innovations can be translated from one context to another.

Routledge
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Regenerative Urban Design and Ecosystem Biomimicry

Maibritt Pedersen Zari

Series: Routledge Research in Sustainable Urbanism

This book examines and defines the field of biomimicry for sustainable design and goes on to translate ecological knowledge into practical methodologies for architectural and urban design that can proactively respond to climate change and biodiversity loss. These methods are tested and exemplified through a series of case studies of existing cities in a variety of climates. *Regenerative Urban Design and Ecosystem Services* will be of great interest to students and researchers of biology, design and environmental studies, as well as those interested in the interdisciplinary study of sustainability.

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Revitalizing Urban Waterway Communities

Streams of environmental justice

Sharon Moran, SUNY, Syracuse, New York, USA Cellulose Research Institute, **Richard Smardon**, SUNY, Syracuse, New York, USA Cellulose Research Institute and **April Baptiste**

Series: Earthscan Studies in Water Resource Management

The revitalizing and restoration of rivers, creeks and streams is a major focus of urban conservation and planning activity. This book presents models and examples for organizing multiple stakeholders for purposes of waterway revitalization or naturalization – if not restoration – within a context of fairness and environmental justice. A range of examples is presented, drawn principally from North America and Europe.

Routledge
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July 2018: 234x156: 256pp
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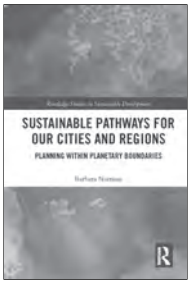
Sustainable Pathways for our Cities and Regions

Planning within Planetary Boundaries



Barbara Norman

Series: Routledge Studies in Sustainable Development

This book builds on the recent publications on cities and climate change, resilient cities and coasts, and sustainable cities, and looks at the ways in which current planning approaches will need to be adapted to embrace concepts including green growth, planetary boundaries, healthy cities and longer-term sustainability. Drawing on case studies from four cities selected for their publicly stated commitment to sustainability – Canberra, Kuala Lumpur, Copenhagen and New York- the author draws conclusions on what positive contribution planning can make in preparing urban and regional communities for significant change in the twenty-first century city.

Routledge
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Social Economics and the Just City

Brendan Murtagh, Queens University Belfast, UK

Series: Routledge Research in Planning and Urban Design

Social Economics and the Just City explores the potential of the social economy as a site of urban struggle, political mobilization and community organization. Providing a critical account of the social economy and its place in urban and state restructuring, this book draws on a range of international cases to argue that the social economy can be made a transformative space. Evaluating community enterprises, social finance, and solidarity economics, author Brendan Murtagh maps the possibilities, contradictions and tactics of moving the rhetoric of the just city into action.

Routledge
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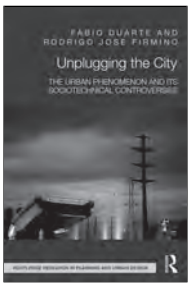
Unplugging the City

The Urban Phenomenon and its Sociotechnical Controversies



Fábio Duarte and **Rodrigo Jose Firmino**

Series: Routledge Research in Planning and Urban Design

Unplugging the City proposes a conceptual and methodological framework for analysing urban phenomenon as a technological assemblage. It demonstrates through multiple case studies the sociotechnical complexities involved in the stabilization and disruption of urban technological arrangements. Written by Fábio Duarte and Rodrigo Firmino based on their original research and publications, this is an essential resource for those interested in the theory and study of technology and its inextricable influence on the city.

Routledge
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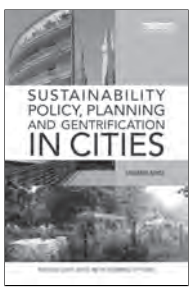
Sustainability Policy, Planning and Gentrification in Cities



Susannah Bunce, University of Toronto, Canada

Series: Routledge Equity, Justice and the Sustainable City series

This book explores the emerging associations and tensions between urban sustainability policy and planning and urban gentrification processes at the neighbourhood/community scale, through an examination of the concepts of 'environmental gentrification' and 'gentrified sustainability' as they apply to planning policy and everyday life in gentrifying cities. A central focus of the book is the exploration of the regulatory, socio-cultural, and socio-environmental practices that underlie the convergences between urban sustainability policy and planning and gentrification and the practices of social exclusion resulting from the connection of these processes.

Routledge
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Urban Food Systems Governance and Poverty in African Cities

Edited by **Battersby Jane**, University of Cape Town, South Africa and **Vanessa Watson**, University of Cape Town, South Africa

Series: Routledge Studies in Food, Society and the Environment

As Africa urbanizes and the focus of poverty shifts to urban centres, there is an imperative to address poverty in African cities. This book examines linkages between poverty, urban food systems and local governance. Chapters provide an overview of food governance issues in cities in Africa and then present three smaller or secondary cities in Africa as case studies: Kisumu (Kenya), Kitwe (Zambia) and Epworth (Zimbabwe).

Routledge
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Urban Gardening as Politics

Edited by **Chiara Tornaghi** and **Chiara Certomà**

While most of the existing literature on community gardens and urban agriculture share a tendency towards either an advocacy view or a rather dismissive approach on the grounds of the co-optation of food growing, self-help and voluntarism to the neoliberal agenda, this collection investigates and reflects on the complex and sometimes contradictory nature of these initiatives. It questions to what extent they address social inequality and injustice and interrogates them as forms of political agency that contest, transform and re-signify 'the urban'.

Routledge
Market: Environmental Studies / Urban Studies
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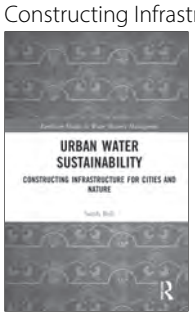
Urban Water Sustainability

Constructing Infrastructure for Cities and Nature



Sarah Bell, University College London, UK

Series: Earthscan Studies in Water Resource Management

This book investigates the implications of developments in water technology and infrastructure for urban sustainability and the relationship between cities and nature. It presents a framework for analysing water technologies and systems, based on theories from critical urban geography, environmental philosophy and the philosophy of technology. It then analyses technical developments in water systems, specifically: water efficiency, water reuse, desalination, water sensitive urban design and ecological sanitation.

Routledge
Market: Environment & Sustainability / Urban Studies / Civil Engineering
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Wild Cities

Spatial Planning in the Urban Age

Wendy Steele, RMIT University, Australia

Series: Routledge Research in Sustainable Urbanism

This book critically engages with the contemporary challenges of planning wild cities in a climate of change. Drawing on the international literature and case-study examples from the developed and developing country contexts, key issues around urban (in)security, critical infrastructure and the rights to the city for both humans and nature are highlighted. It is within this context that this book focuses on the need to better understand how contemporary cities have changed and the relational role of planning within it. *Planning Wild Cities* will be of particular interest to students and scholars of planning, urban studies and sustainable development.

Routledge
Market: Environment, Sustainability
November 2018: 234x156: 200pp
Hb: 978-1-138-91792-7: **£95.00**
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Robert D. Edell, Bregman & Company Inc., Bethesda, Maryland, USA

Environmental laws and regulations are extremely complex and difficult to understand. In order to comply with them, they need to be explained in layperson's terms. There have been many significant changes since the second edition was published. The third edition will identify those changes and will recommend ways to apply and implement them. It will contain the latest and most up-todate environmental information. New areas which have become more highly regulated and are of current importance include acid rain, climate change, coastal zone management, lead paint, mold, oil and gas extraction, power plant emissions, storm water management and "rain taxes," and toxic release inventories.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 448pp
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Prev. Ed Hb: 978-1-566-70565-3
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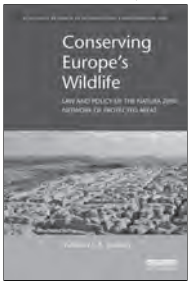
Conserving Europe's Wildlife

Law and Policy of the Natura 2000 Network of Protected Areas



Andrew L.R. Jackson, University College Dublin, Ireland

Series: Routledge Research in International Environmental Law

Natura 2000 is the centrepiece of European Union nature policy, currently covering almost one-fifth of the EU's entire land territory plus large marine areas. This vast network of protected areas, which aims to conserve Europe's most valuable and threatened species and habitats, has major impacts on land use. This book critically assesses the origins and implementation of the EU's Natura 2000 network of protected areas, based on original archival research and interviews with key participants in law and policy-making.

Routledge
Market: Law / Environment & Sustainability / Conservation
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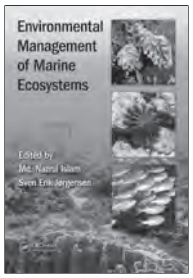
Environmental Management of Marine Ecosystems



Edited by **Md. Nazrul Islam**, Jahangirnagar University, Savar, Dhaka, Bangladesh and **Sven Erik Jorgensen**, Copenhagen University, Denmark

Series: Applied Ecology and Environmental Management

This book will illustrate the current status, trends and effects of climate, natural disturbances and anthropogenic stressors on marine ecosystems. It shows how to integrate different management tools and models in an up-to-date, multidisciplinary approach to environmental management. Through several case studies, it provides a powerful framework for identifying management tools and their applications in coral reefs, fisheries, migratory species, marine islands and associated ecosystems such as mangroves and sea grass beds, including their ecosystem services, the threats to their sustainability, and the actions needed to protect them.

CRC Press
Market: Environmental Science
March 2018: 254 x 178: 368pp
Hb: 978-1-498-76772-9: **£170.00**
eBook: 978-1-498-76773-6
* For **full contents** and more information, visit: **www.crcpress.com/9781498767729**

Ecological Integrity, Law and Governance

Edited by **Laura Westra**, **Klaus Bosselmann**, **Janice Gray** and **Kathryn Gwiazdon**

Ecological integrity is concerned with protecting the planet in a holistic way, while respecting ethics and human rights. This book celebrates the 25th anniversary of the Global Ecological Integrity Group, which includes researchers worldwide, from diverse disciplines, including ecology, biology, philosophy, epidemiology, public health, ecological economics, and law. In particular it shows how ecological integrity is being incorporated into criminal and international law.

Routledge
Market: Law, Environment, Sociology
May 2018: 234x156: 240pp
Hb: 978-0-815-39463-1: **£115.00**
eBook: 978-1-351-18547-9
* For **full contents** and more information, visit: **www.routledge.com/9780815394631**

TEXTBOOK • READER

Environmental Policy and Public Health, Second Edition

Barry L. Johnson and **Maureen Y. Lichtveld**, Tulane Unv., School of Public Health and Tropical Medicine

Written from a global perspective, this second edition describes both current and emerging environmental hazards to human and related ecosystem health and discusses policies and their public health foundations. Current hazards described include air pollution, impure water, unsafe food, toxic substances, pesticides, tobacco products, and hazardous waste. It explains the interventions that policymakers and experts can consider in mitigating or preventing specific environmental hazards.

CRC Press
Market: Environmental Science
October 2017: 279 x 216: 506pp
Hb: 978-1-498-79939-3: **£100.00**
eBook: 978-1-351-22847-3
* For **full contents** and more information, visit: **www.crcpress.com/9781498799393**

Redesigning the Global Seed Commons

Law and Policy for Agrobiodiversity and Food Security

Christine Frison, Université catholique de Louvain, Beligium

Series: Earthscan Food and Agriculture

There is much current controversy over whether the rights to seeds or plant genetic resources should be owned by the private sector or be common property. This book addresses the legal and policy aspects of the multilateral seed management regime. It studies the International Treaty on Plant Genetic Resources for Food and Agriculture and proposes solutions using the "theory of the commons" to improve the collective seed management system of the Treaty, a necessary condition for its member states to reach the overall food security and sustainable agriculture goals.

Routledge
Market: Environment, Law, Agriculture
July 2018: 234x156: 256pp
Hb: 978-1-138-30064-4: **£105.00**
eBook: 978-0-203-73325-7
* For **full contents** and more information, visit: **www.routledge.com/9781138300644**

Routledge Handbook of Food as a Commons

Edited by **Jose Luis Vivero Pol**, **Tomaso Ferrando**, **Olivier de Schutter** and **Ugo Mattei**

From the industrial revolution to the present day, food has been progressively transformed into a private, transnational, mono-dimensional commodity of mass consumption in a global market. But over the last decade there has been an increased recognition that this can be challenged and reconceptualized if food is regarded and enacted as a commons. It provides the first comprehensive review and synthesis of knowledge and new thinking on how key contemporary themes such as the right to adequate food, food and nutrition security and food sovereignty can be reinterpreted and create a paradigm shift through the lens of common property.

Routledge
Market: Environment, Law, Sociology
July 2018: 246x174: 480pp
Hb: 978-1-138-06262-7: **£165.00**
eBook: 978-1-315-16149-5
* For **full contents** and more information, visit: **www.routledge.com/9781138062627**

The Commons, Plant Breeding and Agricultural Research

Challenges for Food Security and Agrobiodiversity

Edited by **Fabien Girard**, Université Grenoble-Alpes, France and **Christine Frison**, Université catholique de Louvain, Beligium

Series: Earthscan Food and Agriculture

The joint challenges of population increase, food security and conservation of agrobiodiversity demand a rethink of plant breeding and agricultural research from a different perspective. This book shows how social sciences, and more especially law, can contribute towards reconfiguring current legal frameworks in order to achieving a better balance between the requirements of agricultural innovation and for access to genetic resources and protection of agrobiodiversity. It demonstrates the relevance of the "Commons" for plant breeding and agricultural innovation.

Routledge
Market: Law, Environment, Agriculture
April 2018: 234x156: 320pp
Hb: 978-1-138-08758-3: **£115.00**
eBook: 978-1-315-11038-7
* For **full contents** and more information, visit: **www.routledge.com/9781138087583**

Water Poverty and Justice in the Global South

Law, Human Rights and Community Action for Water Security

Nathan John Cooper, Lincoln University, UK

Series: Earthscan Studies in Water Resource Management

Delivering sustainable access to sufficient and safe water represents an urgent and profound global challenge. This book raises serious questions about the effectiveness of a human right to water in combating water poverty and ensuring justice. It proposes 'commons' modes of resource allocation, to promote more interconnected, communal and grounded visions of water use, based on detailed case studies from Argentina, India, Malawi and South Africa. It is aimed at advanced students and researchers in water governance and environmental law.

Routledge
Market: Environment / Law / Sociology
August 2018: 234x156: 224pp
Hb: 978-1-138-72635-2: **£95.00**
eBook: 978-1-315-19137-9
* For **full contents** and more information, visit: **www.routledge.com/9781138726352**

World Heritage and Human Rights

Lessons from the Asia-Pacific and global arena

Edited by **Peter Bille Larsen**, University of Lucerne, Switzerland

The World Heritage community is currently adopting policies to mainstream human rights as part of a wider sustainability agenda. This book provides both a review of World Heritage policy at the global level and case studies from Asia-Pacific (including Australia, South and Southeast Asia and China) of how human rights issues impact on both natural and cultural heritage sites and their management.

Routledge
Market: Environment & Sustainability / Anthropology / Law / Heritage
November 2017: 234x156: 326pp
Hb: 978-1-138-22421-6: **£110.00**
Pb: 978-1-138-22422-3: **£37.99**
eBook: 978-1-315-40278-9
* For **full contents** and more information, visit: **www.routledge.com/9781138224216**

A Handbook for the Field Assessment of Land Degradation

Michael A. Stocking

This practical handbook presents simple, non-technical indicators for assessing land degradation in the field. Based on the perspective of the farmer, the methods selected lend meaning to real farming situations, helping the field professional to understand not only the impact of degradation but also the benefits to be gained from reversing it. With detailed figures, photographs, worked examples and sample forms based on assessment techniques validated by field professionals in Africa, Asia and Latin America, this will be an essential training manual will be invaluable for field-workers in NGOs and in governmental and educational institutions.

Routledge
January 2018: 245 x 170: 184pp
Hb: 978-1-138-46541-1: **£145.00**
Pb: 978-1-853-83831-6: **£46.99**
* For **full contents** and more information, visit: **www.routledge.com/9781138465411**

TEXTBOOK • READER

Maritime Environmental Management

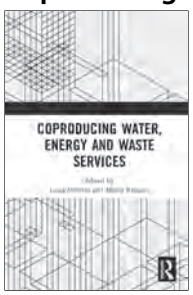
Principles and Practice

Anthony W. Gallagher, Southampton Solent University, UK

In this comprehensive introduction to the issues surrounding the use of the marine environment, the contribution of the maritime sector, specifically shipping and ports, to global environmental impacts is explored in depth. Using an ecosystem-based approach, the author reviews these impacts and considers their relative significance. Effective marine management and responsible use of the marine environment by the maritime sector is increasingly demanded by society. This book considers the success of current systems in place, including the questions of value and specific mechanisms of funding.

Routledge
Market: Environment & Sustainability/Maritime Studies/Geography
June 2018: 234x156: 384pp
Hb: 978-0-415-85385-9: **£95.00**
Pb: 978-0-415-85386-6: **£39.99**
eBook: 978-0-203-74779-7
* For **full contents** and more information, visit: **www.routledge.com/9780415853859**

Coproducing Water, Energy and Waste Services



Edited by **Luisa Moretto** and **Marco Ranzato**

The book looks into the theory and practice of coproducing water, energy and waste services, as an alternative to the conventional service provision model. The chapters originally published as a special issue in *Urban Research & Practice*.

Routledge
Market: Water / Energy / Waste / Services
February 2018: 246x174: 130pp
Hb: 978-0-815-37610-1: **£115.00**
* For **full contents** and more information, visit: **www.routledge.com/9780815376101**

The Application of Science in Environmental Impact Assessment

Aaron J. Mackinnon, **Peter N. Duinker** and **Tony R. Walker**

Series: Routledge Focus on Environment and Sustainability

This book begins by defining an appropriate role for science in EIA. From here it goes on to reflect more closely on empirical and deductive biophysical sciences as they relate to well-known stages of the generic EIA process and explores whether scientific theory and practice are at their vanguard in EIA and related applications. Based on this review, the book concludes that improvements to the quality of science in EIA will rely on the adoption of stronger participatory and collaborative working arrangements.

Routledge
Market: Environment and Sustainability
January 2018: 216x138: 160pp
Hb: 978-0-815-38729-9: **£45.00**
eBook: 978-1-351-17344-5
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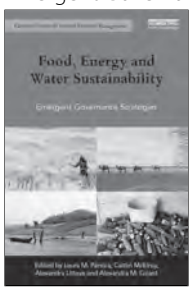
Food, Energy and Water Sustainability

Emergent Governance Strategies



Edited by **Laura M. Pereira**, University of Cape Town, South Africa, **Caitlin A. McElroy**, University of Oxford, UK, **Alexandra Littaye**, University of Oxford, UK and **Alexandra M. Girard**, University of Oxford, UK

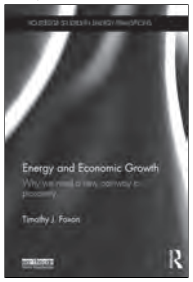
Series: Earthscan Studies in Natural Resource Management

This volume presents the growing diversity of collaborations formed between various governance actors at the intersections of civil society, public and private sector resource management. It analyses these emergent governance structures' ability to cope with the complexity of future challenges across food-energy-water systems and the nexus between these. Case studies present examples of corporations working on strategies that do not externalise social and environmental responsibility, but incorporate these as key outcomes of their business model.

Routledge
Market: Environment & Sustainability / Business & Economics / Politics
October 2017: 234x156: 278pp
Hb: 978-1-138-90409-5: **£105.00**
eBook: 978-1-315-69652-2
* For **full contents** and more information, visit: **www.routledge.com/9781138904095**

Energy and Economic Growth

Why we need a new pathway to prosperity



Timothy J. Foxon, University of Sussex, UK

Series: Routledge Studies in Energy Transitions

Providing a historical understanding of the relevant connections between physical, social and economic changes, *Energy and Economic Growth* enables the reader to better understand the link between their own energy use and global economic and environmental systems, and to be able to ask the right questions of our political and business leaders. It will be of great relevance to students, scholars and policy-makers with an interest in energy, climate change and ecological economics.

Routledge
Market: Energy, Economics, Environment and Sustainability
October 2017: 234x156: 188pp
Hb: 978-1-138-66928-4: **£110.00**
Pb: 978-1-138-66930-7: **£31.99**
eBook: 978-1-315-61818-0
* For **full contents** and more information, visit: **www.routledge.com/9781138669284**

Environmental Conflict

Premise, Purpose, Persuasion, and Promise

James R Lee

This book explores the evolution of environmental conflict as a field of study, conceptualising the boundaries and examining the various research methods used to approach this multi-disciplinary topic. Drawing on a wide range of case studies that are clearly highlighted and analysed over the course of the chapters, this book will be of great interest to students and scholars of environmental conflict and peacebuilding, environmental politics and security studies more broadly.

Routledge
Market: environmental conflict/security studies
September 2018: 234x156: 240pp
Hb: 978-0-815-35249-5: **£110.00**
Pb: 978-0-815-35251-8: **£36.99**
eBook: 978-1-351-13924-3
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Environmental Policy and Pursuit of Sustainability

Edited by **Chelsea Schelly** and **Aparajita Banerjee**, Michigan Technological University, USA

Series: Routledge Studies in Environmental Policy

This unique compilation examines environmental policy through empirical case studies, demonstrating through each particular example how environmental policies are formed, how they operate, what they do in terms of shaping behaviours and future trajectories, and how they intersect with other social dynamics such as politics, power, social norms, and social organization. By providing case studies from both the United States and Mexico, this book provides a cross-national perspective on current environmental policies and their role in creating, and limiting, sustainable human futures.

Routledge
Market: Environmental Policy/ Sustainability
February 2018: 234x156: 238pp
Hb: 978-1-138-29650-3: **£110.00**
Pb: 978-1-138-29651-0: **£36.99**
eBook: 978-1-315-09999-6
* For **full contents** and more information, visit: **www.routledge.com/9781138296503**

Governing Shale Gas

Development, Citizen Participation and Decision Making in the US, Canada, Australia and Europe

John Whitton, University of Central Lancashire, UK, **Ioan M. Charnley-Parry**, **Matthew Cotton**, University of Sheffield, UK and **Kathy Brasier**, Penn State University, USA

Series: Routledge Studies in Energy Policy

This book maps the development of shale gas in multiple democratic governance systems: the US, Canada, Australia, UK, Germany and Poland. The authors compare these governance systems and modes of regulation, describing the opportunities that these different systems of governance present to the general public, such as opportunities to engage and become involved in shale gas decisions. Overall, the book proposes a systemic, participatory, community led approach required to achieve a form of legitimacy that allows communities to derive social priorities by a process of community visioning.

Routledge
Market: Environment, Sustainability
May 2018: 234x156: 272pp
Hb: 978-1-138-63930-0: **£115.00**
eBook: 978-1-315-63728-0
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TEXTBOOK • READER

Human Rights and the Environment

Key Issues

Sumudu Atapattu, University of Wisconsin, USA and **Andrea Schapper**

Series: Key Issues in Environment and Sustainability

This book provides a good understanding of both human rights and environmental issues, as well as the limitations of each regime, and will explore the ways in which human rights law and institutions can be used to obtain relief for the victims of environmental degradation or of adverse effects of environmental policies. In addition, it will use climate change as a core case study. Combining their specialisms in law and politics, Atapattu and Schapper have a developed a truly inter-disciplinary resource that will be essential for students of human rights, environmental studies, international law, international relations, politics and philosophy.

Routledge
Market: Environment and Sustainability/ Human Rights
October 2018: 234x156: 296pp
Hb: 978-1-138-72274-3: **£105.00**
Pb: 978-1-138-72275-0: **£31.99**
eBook: 978-1-315-19339-7
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Jainism and Environmental Philosophy

Karma and the Web of Life

Aidan Rankin

Series: Routledge Focus on Environment and Sustainability

This book describes and explains Jain environmental philosophy, placing it in its cultural and historical context while comparing and contrasting with more familiar or 'mainstream' forms of ecological thought. It will also show how this thought translates into practice, with an emphasis on the role of environmental concerns within the business and commercial practices of Jain communities. Finally, the book will determine the extent to which Jain ideas about environmental protection and interconnectedness have universal relevance. This book will be of great interest to students and scholars of environmental ethics, sustainable business and economics, environmental policy, and Jainism.

Routledge
Market: Environment, Sustainability, Philosophy
February 2018: 216x138: 96pp
Hb: 978-1-138-55182-4: **£45.00**
eBook: 978-1-315-14778-9
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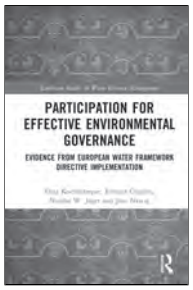
Participation for Effective Environmental Governance

Evidence from European Water Framework Directive Implementation



Edited by **Elisa Kochskämper**, Leuphana University of Lueneberg, Germany, **Edward Challies**, Leuphana University Lueneburg, Germany, **Nicolas W. Jager**, Leuphana University Lueneburg, Germany and **Jens Newig**, Leuphana University Lueneburg, Germany

Series: Earthscan Studies in Water Resource Management

Drawing on evidence from implementation of the European Water Framework Directive (WFD) in eight case studies (from Germany, Spain and the United Kingdom), this book examines a range of approaches to participatory river basin management planning, and considers whether and how participation impacted on the environmental standard of planning documents, quality of implementation, and social outcomes.

Routledge
Market: Environment & Sustainability / Law / Politics
October 2017: 234x156: 180pp
Hb: 978-1-138-71329-1: **£95.00**
eBook: 978-1-315-19364-9
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Strategic Designs for Long-term Climate Policy Instrumentation

Governance by planning or incentives

Gjalt Huppes

Series: Routledge Studies in Environmental Policy

This book provides an insight into how effective EU climate policy instrumentation might develop in two diverging and mutually exclusive directions. Exploring key issues such as the relationship between instrumentation and broader political discussions, as well as examining the design methodology for effective instrumentation, this book will be of great relevance to scholars and policy makers with an interest in climate change and environmental politics.

Routledge
Market: Environment, Sustainability
August 2018: 234x156: 208pp
Hb: 978-1-138-69630-3: **£95.00**
eBook: 978-1-315-52481-8
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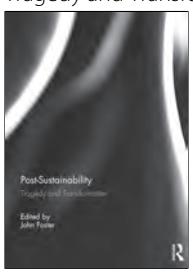
Post-Sustainability

Tragedy and Transformation



Edited by **John Foster**, Lancaster University, UK

This collection of essays starts from the failure of the 'sustainability' paradigm to deliver – most dramatically, its failure to avert now-inevitable climate change. It asks whether some transformed version of sustainability could still help us, or if not, where we might find hope for a post-sustainable world. This book was originally published as a special issue of *Global Discourse.*

Routledge
Market: Environment and Sustainability/Environmental Change
November 2017: 246x174: 196pp
Hb: 978-1-138-29649-7: **£115.00**
* For **full contents** and more information, visit: **www.routledge.com/9781138296497**

Sustainable Intensification of Agriculture

Greening the world's food economy

Jules N. Pretty, University of Essex, Colchester, UK and **Zareen Pervez Bharucha**, Anglia Ruskin University, UK

Series: Earthscan Food and Agriculture

Sustainable intensification (SI) has emerged in recent years as a powerful new conceptualisation of sustainable agriculture and has been widely adopted in policy circles and debates. It is defined as a process or system where yields are increased without adverse environmental impact and without the cultivation of more land. Cowritten by Jules Pretty, one of the pioneers of the concept and internatonally known and respected authority on sustainable agriculture, this book sets out current thinking and debates around sustainable agriculture and intensification.

Routledge
Market: Agriculture / Food Studies / Environment & Sustainability / Sociology
July 2018: 234x156: 216pp
Hb: 978-1-138-19601-8: **£110.00**
Pb: 978-1-138-19602-5: **£29.99**
eBook: 978-1-138-63804-4
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Resources, Financial Risk and the Dynamics of Growth

Systems and society

Aled Jones, Anglia Ruskin University, UK. and **Roberto Pasqualino**

Forty-two years on from The Club of Rome pioneering 'Limits to Growth' (LtG) report (informed by the World3 System Dynamics (SD) model), human development continues on an economic growth driven pathway. This book presents a new SD model to evaluate the systemic risk generated by food and energy supply trends and shocks and their interactions with the material, financial and knowledge economies, under the constraints of a finite planet. It will be of great interest to scholars of climate change, economics, politics, international law and sustainable development.

Routledge
Market: Environment, Sustainability
June 2018: 234x156: 248pp
Hb: 978-1-138-18735-1: **£95.00**
eBook: 978-1-315-64318-2
* For **full contents** and more information, visit: **www.routledge.com/9781138187351**

The Public and the Politics of Radioactive Waste Management

Public involvement and policy-making in the European Union

Gianluca Ferraro, Katholieke Universiteit Leuven, Belgium

Series: Routledge Studies in Waste Management and Policy

Drawing upon sources including EURATOM and the OECD, the author offers a detailed overview of the current state of RWM in the EU, making the distinction between low, intermediate and high level waste in order to show the nuanced technical challenges faced in each waste category. Extrapolating insights from other contested energy infrastructures, this book highlights the key successes and challenges in the quest for a more participatory RWM programme. This book will be of great relevance to students, scholars and practitioners with an interest in RWM and EU environmental politics and policy.

Routledge
Market: Environment, Sustainability
November 2018: 234x156: 176pp
Hb: 978-1-138-21148-3: **£95.00**
eBook: 978-1-315-45293-7
* For **full contents** and more information, visit: **www.routledge.com/9781138211483**

Water Policy, Imagination and Innovation

Interdisciplinary Approaches

Edited by **Robyn Bartel**, University of New England, Australia, **Louise Noble**, University of New England, Australia, **Jacqueline Williams** and **Stephen Harris**, University of New England, Australia

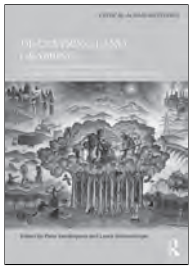
Series: Earthscan Studies in Water Resource Management

Taking as its starting point the claim that there is a stalemate in contemporary water policy design, this book explores creative interdisciplinary and potentially transformative solutions. It proposes a broader approach to water than exists at present, one characterised as a disruptive innovation and that is inclusive of the arts and humanities, relevant stakeholders, such as landholders and Indigenous peoples, as well as science and economics. It demonstrates the value of multiple voices, perspectives, knowledges, and different ways of relating to water.

Routledge
Market: Environment / Geography / Sociology
October 2017: 234x156: 270pp
Hb: 978-1-138-72937-7: **£105.00**
eBook: 978-1-315-18990-1
* For **full contents** and more information, visit: **www.routledge.com/9781138729377**

De-centring Land Grabbing

Southeast Asia Perspectives on Agrarian-Environmental Transformations



Edited by **Peter Vandergeest** and **Laura Schoenberger**

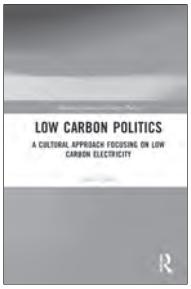
Series: Critical Agrarian Studies

This collection critically examines the nature and extent of land grabbing in Southeast Asia, and seeks to locate this phenomena in broader agrarian and environmental transitions (AET). The chapters originally published as a special issue in *The Journal of Peasant Studies*.

Routledge
Market: Environment / Geography / Asian Studies
April 2018: 246x174: 280pp
Hb: 978-0-815-35387-4: **£115.00**
* For **full contents** and more information, visit: **www.routledge.com/9780815353874**

Low Carbon Politics

A Cultural Approach Focusing on Low Carbon Electricity



David Toke, University of Aberdeen, UK

Series: Routledge Studies in Energy Policy

Drawing on examples from both developed and emerging economies, the book uses cultural theory to demonstrate how policy preferences and action in support of renewable energy and nuclear power are heavily influenced by cultural factors. This book will be of great relevance to students, academics and policymakers with an interest in energy policy, low carbon politics and climate change.

Routledge
Market: Environment, Sustainability
March 2018: 234x156: 192pp
Hb: 978-1-138-69677-8: **£115.00**
eBook: 978-1-315-52337-8
* For **full contents** and more information, visit: **www.routledge.com/9781138696778**

TEXTBOOK • READER

Energy and Geopolitics

Per Högselius

Energy and Geopolitics will enable students to develop their analytical skills with respect to the complex relations between energy supply, international energy systems/markets and international politics. Over the course of the chapters Högselius examines all energy sources and explores the concept of 'entanglement' between different energy systems, as well as between energy supply systems and non-energy systems. This book will be a vital resource to students and scholars of geopolitics, energy security and international environmental policy and politics.

Routledge
Market: Energy/Security/International Relations
November 2018: 234x156: 200pp
Hb: 978-1-138-03838-7: **£105.00**
Pb: 978-1-138-03839-4: **£31.99**
eBook: 978-1-315-17740-3
* For **full contents** and more information, visit: **www.routledge.com/9781138038387**

Negotiating the Environment

Civil Society, Globalisation and the UN

Lauren Eastwood, State University of New York, Plattsburgh, USA

Series: Routledge Research in Global Environmental Governance

Civil society participants have voiced concerns that the environmental problems that became apparent at the multilateral environmental agreements of the 1992 Rio processes are not serving to ameliorate global environmental problems. These concerns raise significant questions regarding the utility of negotiating agreements through the UN. This book elucidates the complexity of how participants engage in these negotiations through the various processes that take place under the auspices of the UN – primarily those related to climate, biodiversity and forest agreements.

Routledge
Market: Environment, Sustainability
September 2018: 234x156: 240pp
Hb: 978-0-415-66056-3: **£95.00**
eBook: 978-0-203-07397-1
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Green Keynesianism and the Global Financial Crisis

Kyla Tienhaara

Series: Routledge Studies in Environmental Policy

This book examines the experience of Australia, Canada, Japan, Korea and the United States with Green Keynesian stimulus programs in the wake of the Global Financial Crisis. While the book documents several success stories, the research indicates overall that more careful consideration of the design of green stimulus programs is needed. In addition to concrete policy advice, the book provides a broader vision for how governments could use Keynesian policies to work toward creating an 'ecological state'.

Routledge
Market: Environment and Sustainability
April 2018: 234x156: 208pp
Hb: 978-1-138-55175-6: **£115.00**
eBook: 978-1-315-14771-0
* For **full contents** and more information, visit: **www.routledge.com/9781138551756**

The Anthropocene Debate

Contributions from Political Science

Edited by **Thomas Hickmann**, **Lena Partzsch**, **Philipp Pattberg** and **Sabine Weiland**

Series: Routledge Research in Global Environmental Governance

This volume contributes to the Anthropocene debate regarding three broad research themes: (1) the *conceptual implications* of the notion of Anthropocene regarding various political and social concepts, such as sustainable development, human-nature relations, and scientific representations of the Earth system, (2) the *political implications* of the Anthropocene, e.g. in the fields of climate governance and environmental security, and (3) *critical reflections* upon the Anthropocene debate. It will be of great interest to students and scholars of political science, global environmental politics and governance, and sustainable development.

Routledge
October 2018: 234x156: 288pp
Hb: 978-0-815-38614-8: **£115.00**
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The Politics of Energy Security

Securing Abundance

Johannes Kester

Series: Routledge Explorations in Energy Studies

After a short historical analysis of the proliferation of energy security, this book unpacks four social practices that drive energy security. These include the logics of security, a critical reflection on the notion of scarcity, an analysis of the relation between the materiality of sociotechnical (energy) systems and the knowledge people have over such systems, and the (power) politics that combine all these practices. This book will be of great interest to students and scholars of energy security and policy, political theory, international relations, and environmental studies more broadly.

Routledge
Market: Environment and Sustainability
July 2018: 234x156: 264pp
Hb: 978-1-138-03747-2: **£95.00**
eBook: 978-1-315-17789-2
* For **full contents** and more information, visit: **www.routledge.com/9781138037472**

The Politics of Shale Gas

Francis McGowan, University of Sussex, UK

Series: Routledge Studies in Energy Policy

Based on extensive fieldwork in Europe and North America, this book offers a comprehensive and systematic comparative analysis of the politics of shale gas development and regulation in these two regions and will be of great interest to students and scholars of energy and environmental politics and policy.

Routledge
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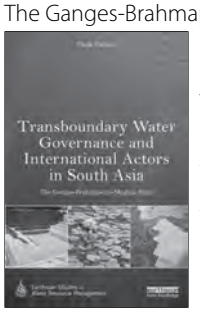
Transboundary Water Governance and International Actors in South Asia

The Ganges-Brahmaputra-Meghna Basin



Paula Hanasz, Australian National University, Australia

Series: Earthscan Studies in Water Resource Management

The intervention of international agencies has struggled to significantly improve transboundary water interaction between India, Nepal, Bhutan and Bangladesh. This book identifies factors that contribute to water conflicts and that detract from water cooperation in the Ganges-Brahmaputra-Meghna river basin in this region. It discusses how donor-led initiatives can better engage with transboundary hydropolitics to increase cooperation and decrease conflict over shared freshwater resources. It will interest those in environmental diplomacy, politics, governance and water resource management.

Routledge
Market: Environment, Politics, Asian Studies
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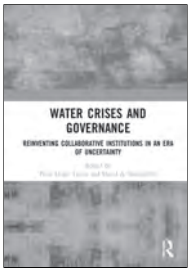
Water Crises and Governance

Reinventing Collaborative Institutions in an Era of Uncertainty



Edited by **Peter Leigh Taylor**, Colorado State University, USA and **David A. Sonnenfeld**, SUNY Environmental Science and Forestry, New York, USA

Water Crises and Governance brings together original research by social science water researchers in developed and developing world contexts from North America and Australasia, to Latin America, Africa and China. These studies provide evidence that, while today's water crises pose serious threats to environments and societies, they also provide opportunities to learn from experience and recraft water governance with coherent visions of more ecologically and socially sustainable futures. This volume was originally published as a special issue of *Society & Natural Resources*.

Routledge
Market: Environment / Water Governance
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Hb: 978-1-138-29976-4: **£115.00**
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Accelerating Sustainable Energy Transition(s) in Developing Countries

The challenges of climate change and sustainable development

Laurence L Delina, Boston University, USA

Series: Routledge Studies in Energy Transitions

This book examines how developing countries are working towards successfully transitioning to sustainable energy sources by looking at their technological, policy, and financing tools and capacities, and by describing the trade-offs of the various options. It will be of great interest to students and scholars of energy and climate policy, sustainable development, development studies, international relations, area studies, politics, strategic studies, and geography. It is also useful to policymakers, and development practitioners including NGOs and project funders.

Routledge
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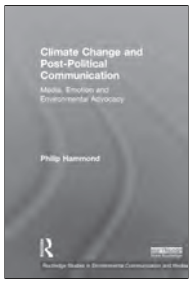
Climate Change and Post-Political Communication

Media, Emotion and Environmental Advocacy



Philip Hammond, London South Bank University, UK

Series: Routledge Studies in Environmental Communication and Media

This book offers a truly original understanding of the contemporary framework of political and media communications, particularly because the topic of climate change is one of the most critical socio-scientific issues facing our global society. Its principal objective is to explore the transformations which politics has undergone in recent decades through the mediation of environmental discourse and, in so doing, to advance current understandings of environmental advocacy and contemporary Western political culture.

Routledge
Market: Environment, Sustainability
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Hb: 978-1-138-77749-1: **£110.00**
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Community Based Natural Resource Management

From economic principles to practical governance

Brian Child, University of Florida, Gainesville, USA

Series: Earthscan Studies in Natural Resource Management

Community Based Natural Resource Management (CBNRM) emerged in the 1980s as a response to the need for greater local participation to conserve and manage natural and wild resources in the face of increasing encroachment by agricultural and other forms of land use development. This book provides both a compehensive review of the principles of CBNRM and practical examples of successes and failures of its implementation, including lessons learned.

Routledge
Market: Environment & Sustainability / Geography / Development
July 2018: 246x174: 352pp
Hb: 978-0-415-79327-8: **£95.00**
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Contemporary Developments in Green Human Resource Management Research

Towards Sustainability in Action?

Edited by **Douglas Renwick**, Sheffield University Management School, UK

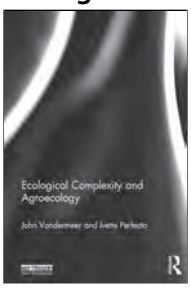
Series: Routledge Research in Sustainability and Business

This book examines a new topic in Human Resource Management (HRM), green – or environmental – HRM, analysing the role humans play in environmental management at work and environmental behaviours at workplaces around the world. The book begins with a focus on negative workplace green behaviours (e.g. toxic chemical leaks, air pollution, contaminated waste etc.), and what such environmental problems mean for workers, managers and society as a whole.

Routledge
Market: Environment, Sustainability
January 2018: 216x138: 248pp
Hb: 978-1-138-78285-3: **£115.00**
eBook: 978-1-315-76895-3
* For **full contents** and more information, visit: **www.routledge.com/9781138782853**

TEXTBOOK • READER

Ecological Complexity and Agroecology



John Vandermeer, University of Michigan, USA and **Ivette Perfecto**, University of Michigan, USA

This textbook reflects the immense growth in interest in agroecology and changing approaches to it. The new science of complexity has become extremely important in the modern science of ecology, but tends to be too mathematical and technical and thus off-putting for the average student. Therefore this book seeks to present ideas about ecological complexity with a minimum of formal mathematics, illustrated by examples from agroecology and agricultural systems from around the world.

Routledge
Market: Ecology / Agriculture / Environment
November 2017: 234x156: 250pp
Hb: 978-1-138-23196-2: **£110.00**
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eBook: 978-1-315-31369-6
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Energy as a Socio-technical Problem

An Interdisciplinary Perspective on Control, Change, and Action in Energy Transformations

Edited by **Christian Büscher**, **Jens Schippl** and **Patrick Sumpf**

Series: Routledge Studies in Energy Transitions

Drawing on contributions which tie together important concepts and themes including innovation, resilience and institutional design, *Energy as a Socio-Technical Problem* presents the ongoing transformation of energy supply as a multi-dimensional process, in which the analytical dimensions interact with each other in shaping the energy future. As such, this book will be of great interest to students and scholars of energy transitions, energy science and environmental sociology more generally.

Routledge
Market: Environment and Sustainability
September 2018: 234x156: 264pp
Hb: 978-1-138-73582-8: **£95.00**
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Environmental Ethics and Behavioural Change

Benjamin Franks, University of Glasgow, UK., **Stuart Hanscomb**, University of Glasgow, UK and **Sean F. Johnston**, University of Glasgow, UK

This book takes a practical approach to environmental ethics with a focus on its transformative potential for students, professionals, policy makers, activists, and concerned citizens. Proposed solutions to issues such as climate change, resource depletion and accelerating extinctions have included technological fixes, national and international regulation and social marketing. This volume examines the ethical features of a range of communication strategies and technological, political and economic methods for promoting ecologically responsible practice in the face of these crises.

Routledge
Market: Environment, Sustainability / Ethics / Politics / Communication
December 2017: 234x156: 286pp
Hb: 978-1-138-92404-8: **£115.00**
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Gender Professionals in Environment and Development

Theory and praxis through feminist political ecology

Edited by **Bernadette P. Resurrección** and **Rebecca Elmhirst**

Series: Routledge Studies in Gender and Environments

This book takes a self-reflexive view of the gender profession in environment and development, framed through feminist political ecology and given voice by gender professionals themselves. By reflecting on and unpacking the experiences of gender professionals and their everyday professional lives, the book re-visits the suite of technical planning tools that have been developed within the 'gender business', and reflects on whether they have led to meaningful gender equality outcomes. This book will be of great relevance to scholars and practitioners with an interest in environment and development, science and technology, and gender and women's studies more broadly.

Routledge
Market: Environment and Sustainability
November 2018: 234x156: 272pp
Hb: 978-0-815-38612-4: **£115.00**
eBook: 978-1-351-17518-0
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Environmental Management of the Media

Policy, Industry, Practice

Pietari Kääpä, University of Stirling, UK

Series: Routledge Studies in Environmental Communication and Media

This book focusses on four key areas for investigating the material impact of Nordic media: resources used for production and dissemination, regulation of the media, the organization of labour, as well as public discussion of these issues. By adopting an interdisciplinary perspective that combines ecocritical analysis with interrogation of the political economy of the creative industries, Kääpä argues that taking the industries to task on their environmental footprint is a multilevel resource and organizational management issue that must be addressed more effectively in contemporary media studies.

Routledge
Market: Environment, Sustainability
July 2018: 234x156: 216pp
Hb: 978-1-138-64982-8: **£95.00**
eBook: 978-1-315-62569-0
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Healthy Urban Environments

More-than-Human Theories

Edited by **Cecily Maller**, RMIT University, Australia

Series: Routledge Studies in Environment and Health

This book applies new theoretical insights to health in urban environments. It stems from increasing interest in the creation of healthy settings and liveable cities, which aim to improve equity and sustainability in urban environments, but do so with simplistic and unimaginative models. The book focuses on socio-ecological models of health and expands and reframes these ideas from more-than-human theory; it then directs these ideas towards reinvigorating health promotion and urban design. The book will be of interest to researchers in health sociology and human geography as well as professionals and policymakers in public health, health promotion, social planning and urban design.

Routledge
Market: Environment, Sustainability
May 2018: 234x156: 184pp
Hb: 978-1-138-65885-1: **£115.00**
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TEXTBOOK • READER

Environmentalism: An Evolutionary Approach

Douglas Spieles, Denison University, USA

The premise of this book is that environmental dilemmas are products of biological and sociocultural evolution, and that through an understanding of evolution we can reframe debates of thought and action. The purpose is to explain the variety of environmental worldviews, their origins, commonalities, points of contention, and their implications for the modern environmental movement. Aimed at students taking courses in environmental studies, it brings clarity to a complex array of ideas and concepts of environmentalism.

Routledge
Market: Environmental Studies, Biology, Geography
December 2017: 234x156: 244pp
Hb: 978-1-138-50241-3: **£110.00**
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Legal Mechanisms for Water Resources in the Third Millennium

Select papers from the IWRA XIV and XV World Water Congresses

Edited by **Marcella Nanni**, **Stefano Burchi**, **Ariella D'Andrea** and **Gabriel Eckstein**, Texas A&M University, USA

Series: Routledge Special Issues on Water Policy and Governance

This book examines contemporary legal mechanisms for water resources management, the manner in which they have evolved over time, as well as the constraints they face due to changing circumstances. The chapters originally published in *Water International*.

Routledge
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March 2018: 246x174: 234pp
Hb: 978-0-815-36363-7: **£115.00**
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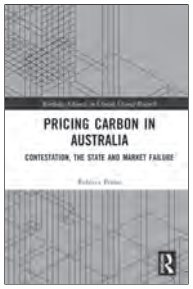
Pricing Carbon in Australia

Contestation, the State and Market Failure



Rebecca Pearse

Series: Routledge Advances in Climate Change Research

This book examines the ETS in Australia between 2007 and 2015, exploring the underlying contradictions of marketised climate policy. Offering a critique of the political economy of marketised climate policy, the book explores why the hopes for global carbon trading have been dashed. The Australian case is interpreted in light of a broader legitimation crisis as state strategies for (temporarily) displacing the climate crisis continue to fail. Importantly, in the wake of carbon market failure, alternative agendas for state action are emerging as campaigns for the retrenchment of fossil fuel assets and for just renewable energy transition transform climate politics and policy.

Routledge
Market: Environment, Sustainability
November 2017: 234x156: 156pp
Hb: 978-1-138-23058-3: **£105.00**
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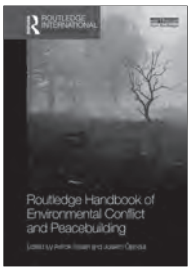
Routledge Handbook of Environmental Conflict and Peacebuilding



Edited by **Ashok Swain** and **Joakim Öjendal**

Series: Routledge International Handbooks

Conceived as a single and reliable reference source which will be a vital resource for students, researchers and policy makers alike, the *Routledge Handbook of Environmental Conflict and Peacebuilding* presents a wide range of chapters written by key thinkers in the field, organised into four key Parts:

Part I: Theories of environmental conflict and peacebuilding; Part II: Thematic approaches (scarcity / resource / interventions / resilience / development etc.); Part III: Case studies (Rwanda, Ethiopia, Burma, Nepal, Columbia, Ivory Coast, Bosnia, Cambodia); Part IV: Analytical challenges and future-oriented perspectives.

Routledge
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May 2018: 246x174: 360pp
Hb: 978-1-138-20252-8: **£175.00**
eBook: 978-1-315-47377-2
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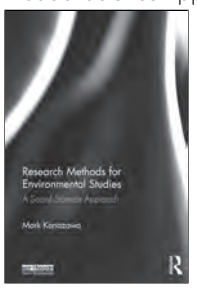
TEXTBOOK • READER

Research Methods for Environmental Studies

A Social Science Approach



Mark Kanazawa, Carleton College, USA

Written specifically for social science-based research into the environment, this book covers the best-practice research methods most commonly used to study the environment. Over five key parts, Kanazawa introduces quantitative and qualitative approaches, mixed methods, and the special requirements of interdisciplinary research. Drawing on a variety of extended examples to encourage problem-based learning and fully addressing the challenges associated with interdisciplinary investigation, this book will be an essential resource for students embarking on courses exploring research methods in environmental studies.

Routledge
Market: Research Methods, Environmental Studies
October 2017: 234x156: 380pp
Hb: 978-1-138-68016-6: **£110.00**
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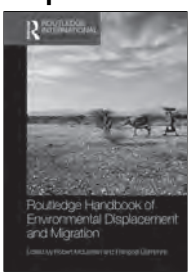
Routledge Handbook of Environmental Displacement and Migration



Edited by **François Gemenne**, University of Versailles Saint-Quentin-en-Yvelines, France and the University of Liège, Belgium and **Robert McLeman**, Wilfrid Laurier University, Canada

Series: Routledge International Handbooks

The *Routledge Handbook of Environmental Displacement and Migration* will provide a state-of-the-science review of research on how environmental variability and change influence current and future global migration patterns and possibly trigger large-scale population displacements. The compendium will explain theoretical, conceptual, and empirical developments that have been made in recent years; describe their origins and connections to broader topics including migration research, development studies, and international public policy and law; and, highlight emerging areas where new and/or additional research and reflection are warranted.

Routledge
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Routledge Handbook of Energy Humanities

Edited by **Graeme Macdonald**, University of Warwick, UK and **Janet Stewart**, Durham University, UK

Series: Routledge International Handbooks

The *Routledge Handbook of Energy Humanities* is a state-of-the-art reference resource that consolidates the large and growing amount of knowledge and expertise in the field in the form of targeted contributions by leading experts. The handbook is organised into four key parts, and takes as its starting point the fact that energy poses a significant global challenge, which is not only technological in nature, but also fundamentally social, cultural and political. It will be of great interest to energy researchers across the world in a number of disciplines, as well as to museums, arts and environmental organisations, governments, and policymakers.

Routledge
Market: Energy Studies/ Humanities
September 2018: 246x174: 408pp
Hb: 978-0-415-43953-4: **£165.00**
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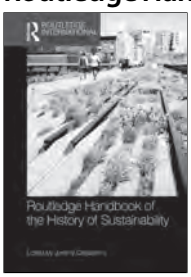
Routledge Handbook of the History of Sustainability



Edited by **Jeremy L. Caradonna**, University of Alberta, Canada

Series: Routledge International Handbooks

The *Routledge Handbook of the History of Sustainability* is a comprehensive survey of the emerging field that studies the history of sustainability. It provides a unique resource for advanced undergraduates, graduate students, and scholars engaged in the field by providing comprehensive coverage of the state of the art in the field.

Routledge
Market: Environment and Sustainability / Sustainability
November 2017: 246x174: 444pp
Hb: 978-1-138-68579-6: **£175.00**
eBook: 978-1-315-54301-7
* For **full contents** and more information, visit: **www.routledge.com/9781138685796**

Social Innovation and Sustainable Consumption

Research and Action for Societal Transformation

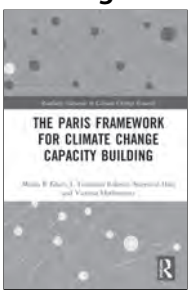
Edited by **Julia Backhaus**, Maastricht University, Netherlands, **Audley Genus**, **Sylvia Lorek**, **Edina Vadovics** and **Julia M Wittmayer**, Erasmus University Rotterdam, Netherlands.

Series: Routledge-SCORAI Studies in Sustainable Consumption

Bringing together leading thinkers on this topic, this book leads to compelling new insights for an international audience into the potential of social innovation for sustainable consumption and the transformation of society. It will be of great interest to sustainable consumption, sustainable development, (social) innovation studies and environmental sociology.

Routledge
Market: Environment and Sustainability
December 2017: 234x156: 190pp
Hb: 978-1-138-70694-1: **£115.00**
eBook: 978-1-315-20155-9
* For **full contents** and more information, visit: **www.routledge.com/9781138706941**

The Paris Framework for Climate Change Capacity Building



Mizan R Khan, North South University, Bangladesh, **J. Timmons Roberts**, Brown University, USA, **Saleemul Huq**, Independent University, Bangladesh and **Victoria Hoffmeister**, Brown University, USA

Series: Routledge Advances in Climate Change Research

The Paris Framework for Climate Change Capacity Building aims to fill a gap in the literature by unearthing the ineffective and unsustainable practices of capacity building by bilateral and multilateral agencies in developing countries in the last decade, the gaps and lacunae in those processes, and the way forward. Activities in this area have been disparate and uncoordinated, one-off short-term consultancy-based initiatives, supported by different agencies which have spent millions of dollars, but failed to build and leave a sustainable long term system in place. The book will make the case that universities in developing countries should be the central hub of such activities.

Routledge
Market: Environment/Climate Change
March 2018: 234x156: 256pp
Hb: 978-1-138-89664-2: **£95.00**
eBook: 978-1-315-17909-4
* For **full contents** and more information, visit: **www.routledge.com/9781138896642**

Strongly Sustainable Societies

Organising Human Activities on a Hot and Full Earth

Edited by **Karl Johan Bonnedahl** and **Pasi Heikkurinen**

Series: Routledge Studies in Sustainability

Based on the assumption of strong sustainability, this edited book presents practical and theoretical alternatives to today's unsustainable societies. It investigates and advances pathways for humanity that are ecologically realistic, ethically inclusive, and receptive to the task's magnitude and urgency. Examining key topics including human–nature relations and wealth and justice, this book will be of great interest to students and scholars of environmental studies, ecological economics, environmental governance and policy, and sustainable development.

Routledge
Market: Environmental Studies/ Sustainable Development
July 2018: 234x156: 264pp
Hb: 978-0-815-38721-3: **£110.00**
Pb: 978-0-815-38722-0: **£36.99**
eBook: 978-1-351-17364-3
* For **full contents** and more information, visit: **www.routledge.com/9780815387213**

Routledge Handbook of Sustainability Indicators

Edited by **Simon Bell**, Open University, UK and **Stephen Morse**, University of Surrey, UK

Series: Routledge International Handbooks

This handbook provides researchers and students with an overview of the field of sustainability indicators and indices (SIIs) as applied in the interdisciplianry field of sustainable development. The editors have sought to include views from the centre ground of SII development but also divergent views which represent some of the diverse, challenging and even edgy observations which are prominent in the wider field of environmental indicator thinking.

Routledge
Market: Environment, Sustainability
June 2018: 246x174: 632pp
Hb: 978-1-138-67476-9: **£175.00**
eBook: 978-1-315-56110-3
* For **full contents** and more information, visit: **www.routledge.com/9781138674769**

Sustainable Development and Corporate Social Responsibility

Dongyong Zhang, **Stephen Morse**, University of Surrey, UK and **Uma Kambhampati**

Sustainable Development and Corporate Social Responsibility explores the evolution of CSR across the developed and developing world, with a particular focus on China and sustainable development. Through an extensive review of the literature and relevant case study, the book examines whether CSR can make a contribution to sustainable development, how the patterns of CSR in developed Western economies compare to that in the rapidly growing economy of China, what trade-offs take place between CSR and economic growth as well as the future of CSR and its possible impact on the global sustainable development agenda.

Routledge
Market: Environment, Sustainability
November 2017: 234x156: 270pp
Hb: 978-1-138-81043-3: **£110.00**
Pb: 978-1-138-81044-0: **£34.99**
eBook: 978-1-315-74949-5
* For **full contents** and more information, visit: **www.routledge.com/9781138810433**

Exploring Natural Hazards

A Case Study Approach

Edited by **Darius Bartlett**, Department of Geography, University College Cork and **Ramesh Singh**, Chapman University

This book addresses natural hazards from a scientific and applied engineering perspective. It provides information on the physics and physical processes of a range of natural phenomena that pose hazards to human society, including tropical cyclones, droughts, floods, and lightning. It highlights the current state of research on hazards discussed and deals primarily with their understanding, monitoring, and risk mitigation. Emphasis is on prediction techniques and accuracy, assessments and recent improvements in early warning systems. Using examples and case studies from around the world, the authors present environmental issues in a way that is accessible to readers working in the field.

Chapman and Hall/CRC
Market: Environmental Science
March 2018: 235 x 156: 354pp
Hb: 978-1-138-05442-4: **£140.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138054424**

Natural Hazards

Earthquakes, Volcanoes, and Landslides

Edited by **Ramesh Singh**, Chapman University and **Darius Bartlett**, Department of Geography, University College Cork

This book addresses relevant aspects of earthquakes, volcanoes, and landslides from a scientific and applied engineering perspective. It aims to provide information on the physics and physical processes, indicators, monitoring, mitigation, and geology of these natural hazards. The book highlights the current state of research on these hazards, and deals primarily with their understanding, monitoring and prediction. There is emphasis on satellite monitoring and remote sensing technology used in prediction and assessments. The chapters presented in the book intend to stimulate thinking and further research in the field of natural hazards disaster management.

CRC Press
Market: Environmental Science
March 2018: 254 x 178: 512pp
Hb: 978-1-138-05443-1: **£140.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138054431**

2nd Edition • TEXTBOOK • READER

Geology

Basics for Engineers, Second Edition

Aurele Parriaux, Federal Institute of Technology (EPFL), Lausanne, Switzerland

This 2nd edition of the 2009 original textbook shows the engineer how to take geological conditions into account in his projects, and how to exploit a wide range of natural resources in an intelligent way, reduce geological hazards, and manage subsurface pollution. Through a problem-based-learning approach, this instructional text imparts knowledge and practical experience to engineering students (undergraduate and graduate level), as well as to experts in the fields of civil engineering, environmental engineering, earth sciences, architecture, land and urban planning. This new edition is fully revised and updated.

CRC Press
Market: Geology
May 2018: 246x174: 650pp
Hb: 978-1-138-09666-0: **£155.00**
Pb: 978-1-138-09662-2: **£69.99**
* For **full contents** and more information, visit: **www.crcpress.com/9781138096660**

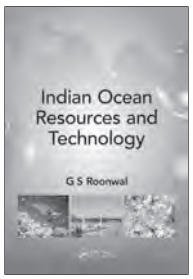
Practical Handbook of Earth Science

Jane H. Hodgkinson, CSIRO and **Frank D. Stacey**, CSIRO

This self-contained handbook provides a carefully researched, compact source of key earth science information and data, logically sorted by subject matter, and then cross-referenced. Appealing to both experts and non-experts alike, the book presents earth science and environmental science as closely intertwined. It includes tables of the global distributions of fossil fuels, contrasted by tables of the distribution of non-fossil energy sources. Concise explanations cover the subject matters of geology, geophysics, oceans, atmosphere with attention to environmental implications and resources.

CRC Press
Market: Environmental Science
October 2017: 229 x 152: 402pp
Hb: 978-1-138-55223-4: **£115.00**
Pb: 978-1-138-05444-8: **£77.00**
eBook: 978-1-315-14803-8
* For **full contents** and more information, visit: **www.crcpress.com/9781138552234**

Indian Ocean Resources and Technology



Ganpat Singh Roonwal

This title aims to provide comprehensive review of the existing activity and status within the Indian Ocean region with an aim to highlight major problem areas and producing suggestions for tapping huge resource potential in the Indian Ocean region.

CRC Press
Market: Environmental Science
October 2017: 254 x 178: 219pp
Hb: 978-1-138-09534-2: **£155.00**
eBook: 978-1-315-10569-7
* For **full contents** and more information, visit: **www.crcpress.com/9781138095342**

2nd Edition • NEW EDITION

Rocks and Minerals in Thin Section, Second Edition

A Colour Atlas

W.S. MacKenzie, **A.E. Adams** and **K.H. Brodie**

A clear and accessible introduction to the use of thin section in the study of Petrography - the scientific description of rocks. Illustrated with a wealth of full colour thin section photographs, the book explains how to observe mineral and rock samples under the microscope. It covers all rock types - igneous, sedimentary and metamorphic - with equal emphasis and authority, providing the student with an excellent overview of the subject. Each photograph has been chosen to instruct the beginner and offer valuable resource material to the teacher and lecturer of geology. A useful teaching and learning tool and a concise reference and review of rock and mineral identification.

CRC Press
Market: Geology
November 2017: 210x148: 232pp
Hb: 978-1-138-09184-9: **£69.99**
Pb: 978-1-138-02806-7: **£26.99**
eBook: 978-1-315-11636-5
* For **full contents** and more information, visit: **www.crcpress.com/9781138091849**

Advances in SAR Remote Sensing of Oceans

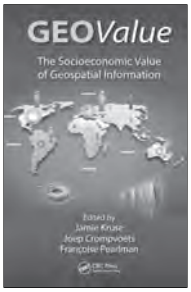
Edited by **Xiaofeng Li**, **Huadong Guo**, Institute of Remote Sensing and Digital Earth, Chinese Academy of Science, **Kun-Shan Chen**, Chinese Academy of Sciences, Beijing, China and **Xiaofeng Yang**, NOAA/NESDIS, USA

SAR remote sensing for ocean and coast monitoring has become a very popular area of geoscience and remote sensing research in recent years. This book is focused on ocean dynamical studies of sea surface phenomena, air-sea interactions, anthropogenic object detection and radar imaging mechanisms. The objective is to demonstrate the types of information that may be obtained from SAR images of the ocean, and the cutting-edge methods of analyzing the imagery. It is intended for scientific researchers as well as graduate and/or senior undergraduate students who wish to use remotely sensed radar data in oceanographic research.

CRC Press
Market: Environmental Science
October 2018: 235 x 156: 400pp
Hb: 978-0-815-37677-4: **£145.00**
* For **full contents** and more information, visit: **www.crcpress.com/9780815376774**

GEOValue

The Socioeconomic Value of Geospatial Information



Edited by **Jamie B. Kruse**, East Carolina University, Greenville, North Carolina, USA, **Joep Crompvoets**, Katholieke Universiteit Leuven, Belgium and **Francoise Pearlman**, J&F Enterprise, Port Angeles, Washington, USA

The GEOValue community is a community of experts from a wide range of disciplines committed to refine and advance standards of practices for consistent, replicable and reliable measurement of social and economic benefits that stem from geospatial information. This book will provide a forum for the community to address methodologies in economics and beyond for valuing the benefits of geospatial data and services and will present case studies that illustrate those methodologies. The future value of proposed new geospatial information systems must become a component of an effective investment decision process. This book will explore the convergence toward standardized practices.

CRC Press
Market: Environmental Science
November 2017: 235 x 156: 332pp
Hb: 978-1-498-77451-2: **£125.00**
eBook: 978-1-498-77452-9
* For **full contents** and more information, visit: **www.crcpress.com/9781498774512**

Analysis of High Spatial Resolution Remote Sensing Imagery

An Object Based Approach

Krishna Mohan Buddhiraju and **Biplab Banerjee**, Indian Institute of Technology Bombay, Powai, Mumbai, Maharashtra, India

This book introduces a framework for analysis of high spatial resolution imagery with an object based approach. Starting with image pre-processing to deal with noise, the book presents a detailed survey of major image segmentation approaches—from simple thresholding to relatively advanced multi-resolution region extraction. Approaches to region indexing and a detailed discussion of classification techniques are presented along with examples of high-resolution image classification for extracting specific objects such as roads, buildings, vegetation, and land use/land cover maps.

CRC Press
Market: Environmental Science
November 2018: 235 x 156: 360pp
Hb: 978-1-482-23030-7: **£115.00**
eBook: 978-1-482-23031-4
* For **full contents** and more information, visit: **www.crcpress.com/9781482230307**

High Spatial Resolution Remote Sensing

Data, Analysis, and Applications

Edited by **Yuhong He**, University of Toronto Mississauga, Ontario, Canada and **Qihao Weng**, Indiana State University, Terre Haute, USA

Series: Imaging Science

High spatial remote sensing data have been often used as valuable sources of information throughout emergency management cycle. Information extracted in high spatial remote sensing data right after a devastating earthquake can help assess the earthquake's damage of roads and buildings and make emergency plans for contact and evacuation. The book will discuss emerging high spatial resolution data sources, and detail novel techniques and applications for handling, retrieving, and making best use of high spatial resolution remote sensing data.

CRC Press
Market: Environmental Science
August 2018: 254 x 178: 392pp
Hb: 978-1-498-76768-2: **£170.00**
eBook: 978-1-498-76769-9
* For **full contents** and more information, visit: **www.crcpress.com/9781498767682**

Geospatial Applications for Natural Resources Management

Edited by **Chander Kumar Singh**, Dept. of Regional Water Studies, Teri University, New Delhi, India

This book will present new research regarding the interdisciplinary applications of spatial information sciences for identification, assessment, monitoring, and modeling issues related to natural resources and environmental management. It will focus on the creation, collection, storage, processing, modeling, interpretation, display and dissemination of spatio-temporal data, which could greatly aid with environmental management issues including ecosystem change, resource utilization, land use management, and environmental pollution. The positive environmental impacts of information technology advancements with in regards to global environmental and climate change will also be discussed throughout the book.

CRC Press
Market: Environmental Science
April 2018: 254 x 178: 296pp
Hb: 978-1-138-62628-7: **£100.00**
eBook: 978-1-315-22921-8
* For **full contents** and more information, visit: **www.crcpress.com/9781138626287**

Image Processing and Data Analysis with ERDAS IMAGINE®

Stacy A.C. Nelson and **Siamak Khorram**

Globally, a wide variety of organizations rely on ERDAS IMAGINE® daily, including local, state and national mapping agencies, transportation departments, defense organizations, engineering and utility companies and many more. ERDAS IMAGINE® is a powerful software package used to collect, process, analyze and understand raw geospatial data, it has become the industry standard in digital image processing. This book provides the first comprehensive guide to develop a proficiency in digital image processing of remotely sensed data from a research/real-world application perspective, along with robust hands-on, start-to-finish examples that represent the most commonly/traditionally used methods.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 240pp
Hb: 978-1-138-03498-3: **£115.00**
eBook: 978-1-315-26994-8
* For **full contents** and more information, visit: **www.crcpress.com/9781138034983**

Imaging from Spaceborne and Airborne SARs, Calibration, and Applications

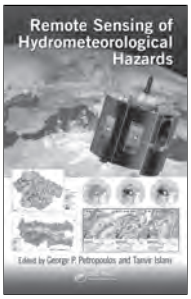
Masanobu Shimada

Series: SAR Remote Sensing

Synthetic Aperture Radar is a topic of great interest all over the world. SAR remote sensing is being used for Earth observation, geophysical applications and environmental monitoring. This book covers SAR theory, SAR data processing, and SAR applications using ALOS/PALSAR data. Particularly of interest are topics such as calibration, interferometry and SAR imaging of forested regions, disaster monitoring and the effects of climate change. It explains in detail the JAXA SAR products; large scale SAR imaging and SAR mosaicking. This book is the result of the authors' 30 year experience in SAR imaging.

CRC Press
Market: Environmental Science
October 2018: 235 x 156: 408pp
Hb: 978-1-138-19705-3: **£145.00**
eBook: 978-1-315-28261-9
* For **full contents** and more information, visit: **www.crcpress.com/9781138197053**

Remote Sensing of Hydrometeorological Hazards

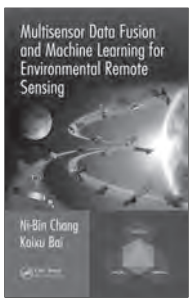


Edited by **George P. Petropoulos**, Aberystwyth University, UK and **Tanvir Islam**, NASA JPL, Pasadena, USA

Extreme weather and climate change aggravate the frequency and magnitude of disasters. Facing atypical and more severe events, existing early warning and response systems become inadequate both in scale and scope. Earth Observation (EO) provides today information at global, regional and even basin scales related to agrometeorological hazards. This book will focus on drought, flood, frost, landslides, and storms/cyclones and will cover different applications of EO data used from prediction to mapping damages for each category. It will explain the added value of EO technology in comparison with conventional techniques applied today through many case studies.

CRC Press
Market: Environmental Science
November 2017: 254 x 178: 525pp
Hb: 978-1-498-77758-2: **£145.00**
eBook: 978-1-315-15494-7
* For **full contents** and more information, visit: **www.crcpress.com/9781498777582**

Multisensor Data Fusion and Machine Learning for Environmental Remote Sensing



Ni-Bin Chang, University of Central Florida, Orlando, USA and **Kaixu Bai**, University of Central Florida, Orlando, USA

Automated image fusion processes involving cross-mission of multiple satellites with the aid of ground-based sensor networks and databases are critical to support environmental decision-making. This book is unique because it rests upon a smooth integration between image fusion and data mining for information retrieval and content-based mapping in the context of different environmental applications, and it focuses on environmental application issues at global and regional scale, while using local scale ground-truth data for calibration and validation. It has potential to be integrated with local scale data/image fusion based on local physical sensors and human observations.

CRC Press
Market: Environmental Science
March 2018: 235 x 156: 508pp
Hb: 978-1-498-77433-8: **£155.00**
eBook: 978-1-498-77434-5
* For **full contents** and more information, visit: **www.crcpress.com/9781498774338**

Remote Sensing Time Series Image Processing

Edited by **Qihao Weng**, Indiana State University, Terre Haute, USA

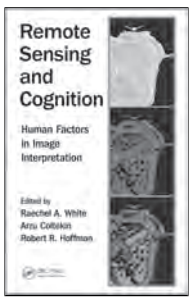
Series: Imaging Science

Driven by the societal needs and improvements in sensor technology and image processing techniques, remote sensing has become an essential tool for understanding the Earth and managing Human-Earth interactions. Time series image analysis is emerging as a new direction in remote sensing. Methods and techniques of time series image analysis have been widely applied in topics ranging from vegetation dynamics to wetland, agricultural and range land, climate, hydrology, and urbanization. This book explores the current state of knowledge on remote sensing time series image processing and addresses all major aspects and components of time series image analysis with ample examples and applications.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 264pp
Hb: 978-1-138-05459-2: **£115.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138054592**

Remote Sensing and Cognition

Human Factors in Image Interpretation

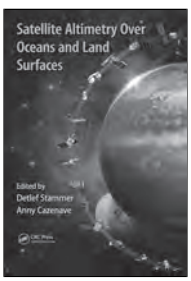


Edited by **Raechel A. White**, Michigan State University, East Lansing, Michigan, USA, **Arzu Coltekin**, University of Zurich, Switzerland and **Robert R. Hoffman**, Institute for Human and Machine Cognition, Pensacola, Florida, USA

Human factors play a critical role in the design and interpretation of remotely sensed imagery for all Earth sciences. This book will bring together current topics widely recognized and addressed regarding human cognition in geographic imagery, especially remote sensing imagery with complex data. It will address themes around expertise including methods for knowledge elicitation and modeling of expertise, the effects of different aspects of realism on the interpretation of the environment, spatial learning using imagery, the effect of visual perspective on interpretation, and a variety of technologies and methods for utilizing knowledge in the analysis of remote sensing imagery.

CRC Press
Market: Environmental Science
May 2018: 235 x 156: 154pp
Hb: 978-1-498-78156-5: **£140.00**
eBook: 978-1-351-04046-4
* For **full contents** and more information, visit: **www.crcpress.com/9781498781565**

Satellite Altimetry Over Oceans and Land Surfaces



Edited by **Detlef Stammer**, University of Hamburg, Germany and **Anny Cazenave**, LEGOS - CNES, Toulouse, France

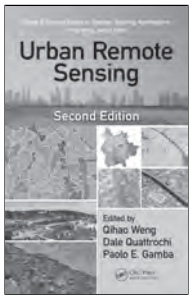
Series: Earth Observation of Global Changes

Satellite remote sensing, in particular by radar altimetry, is a crucial technique for observations of the ocean surface and of many aspects of land surfaces, and of paramount importance for climate and environmental studies. This book provides a state-of-the-art overview of the satellite altimetry techniques and related missions, and reviews the most-up-to date applications to ocean dynamics and sea level. It also discusses related space-based observations of the ocean surface (ocean salinity) and of the marine geoid, as well as applications of satellite altimetry to the cryosphere and land surface waters; operational oceanography and its applications to navigation, fishing and defense.

CRC Press
Market: Environmental Science
October 2017: 254 x 178: 644pp
Hb: 978-1-498-74345-7: **£145.00**
eBook: 978-1-315-15177-9
* For **full contents** and more information, visit: **www.crcpress.com/9781498743457**

2nd Edition • NEW EDITION

Urban Remote Sensing, Second Edition



Edited by **Qihao Weng**, Indiana State University, Terre Haute, USA, **Dale Quattrochi** and **Paolo E. Gamba**

Series: Remote Sensing Applications Series

Earth observation technology, in conjunction with in situ data collection, can be used to observe, monitor, measure, and model many of the components that comprise urban ecosystems cycles. Over the past decade, urban remote sensing has rapidly emerged as a new frontier in the Earth observation technology by focusing primarily on understanding the biophysical properties, patterns, and processes of urban landscapes, and mapping and monitoring of urban land cover and spatial extent. The second edition reflects new developments in satellite sensors, image processing methods and techniques, and the applications of urban remote sensing to meet societal and economic challenges at this time.

CRC Press
Market: Environmenal Science
February 2018: 235 x 156: 318pp
Hb: 978-1-138-05460-8: **£130.00**
Prev. Ed Hb: 978-0-849-39199-6
* For **full contents** and more information, visit: **www.crcpress.com/9781138054608**

Derelict Mines

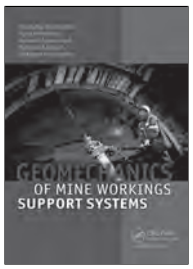
Environmental Risk Assessment and Management

Edited by **Ravi Naidu**, Global Institute for Environmental Research, CRC CARE, University of Newcastle, Callaghan, Australia

Mine areas left behind by companies that no longer exist are defined as derelict mines-those that were operated and closed at a time when most countries did not have adequate regulations requiring rehabilitation of the impacted mine areas. This new book provides unique information on the extent and severity of derelict mines' impact on environmental degradation and human and environmental health. It examines the nature of derelict mines, short- and long-term risks to sensitive receptors, tools for monitoring and prioritizing risks, and technological advances for rehabilitation. This book considers a risk-based approach to managing derelict mines, which is both reliable and cost effective.

CRC Press
Market: Engineering - Environmental
August 2018: 235 x 156: 500pp
Hb: 978-1-138-30662-2: **£145.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138306622**

Geomechanics of Mine Workings Support Systems



Edited by **Volodymyr Bondarenko**, National Mining University of Ukraine, Dnipropetrovs'k, Ukraine, **Iryna Kovalevska**, National Mining University, Dnipropetrovs'k, Ukraine, **Hennadiy Symanovych**, **Mykhaylo Barabash** and **Oleksandr Vivcharenko**

The basic principles of geomechanical processes occurring in the mine workings during extraction of minerals are discussed in this book. Particular attention is paid to the support system, specifically to the various anchor and frame support designs, and also to the modern means providing resource-saving conditions of ensuring mine workings sustainability. The basic principles of a computing experiment performance at modeling of geomechanical processes are also presented and he stress-strain state of "rock massif – mine working support" system is investigated. Field studies are also covered.

CRC Press
Market: Mining Engineering
January 2018: 246x174: 231pp
Hb: 978-0-815-39398-6: **£110.00**
eBook: 978-1-351-11938-2
* For **full contents** and more information, visit: **www.crcpress.com/9780815393986**

Guidelines for Open Pit Slope Design in Weak Rocks

Edited by **Derek Martin**, University of Alberta, Edmonton, Canada and **Peter Stacey**, Stacey Mining Geotechnical Ltd, Vancouver, BC, Canada

Outlining the challenges and solutions for planning and operating open pit mines in 'weak rocks'. It was recognized that *Guidelines for Open Pit Slope Design* (2009) was focused primarily on open pit slopes in hard rocks and did not address the challenges that are often associated with open pits in 'weak rocks'. While open pits in weak rocks tend to be shallower than hard rock pits the pit wall failures can still be large. It is therefore critical that the presence of weak rocks is recognized early in the design process, since they often cannot be treated in the same way as hard rocks. This recognition may require a different site characterization and design approach.

CRC Press
Market: Mining
December 2017: 210 x 280: 398pp
Hb: 978-1-138-29809-5: **£145.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781138298095**

Rock Mass Response to Mining Activities

Tadeusz Szwedzicki

Series: Geomechanics Research

Mining activities may result in rock mass deterioration and instability that may lead to failure both in underground and open pit mines. Such deterioration represents a safety risk and may result in substantial financial losses. Rock mass response may lead to ground subsidence, fall of ground/caving, inundation, pillar collapse, seismic activities and slope and tailings dam instability. Each response is preceded by warning signs and precursors. These warning signs and precursors are identified. Case studies of large scale ground deterioration leading to collapse are presented. Identifying risks and monitoring geotechnical precursors and warning signs allows for safe and productive mining.

CRC Press
Market: Civil Engineering
August 2018: 246x174: 250pp
Hb: 978-1-138-08292-2: **£110.00**
eBook: 978-1-315-11233-6
* For **full contents** and more information, visit: **www.crcpress.com/9781138082922**

Earthquake Hazard Assessment

India and Adjacent Regions

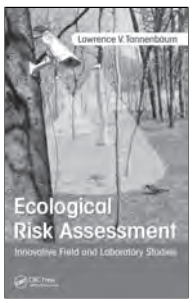
Sreevalsa Kolathayar, Department of Civil Engineering, Indian Institute of Science, Bangalore, India and **T.G. Sitharam**, Indian Institute of Science, Department of Civil Engineering, Bengaluru, Karnataka, India

The book provides an overview of the background to and details of earthquake hazard estimation in India in a very comprehensive manner with details on seismicity data management, seismicity analysis, seismic source characterization, seismic hazard estimation using various methods and site characterization. The work presents a scientific approach for earthquake hazard analysis with a case study covering India and adjoining regions, a spatiotemporally complex region with varied tectonic provinces featuring different seismicity characteristics.

CRC Press
Market: Geology
July 2018: 246x174
Hb: 978-1-138-30923-4: **£92.00**
eBook: 978-1-315-14381-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138309234**

Ecological Risk Assessment

Innovative Field and Laboratory Studies



Lawrence V. Tannenbaum, US Army Public Health Center, Aberdeen Proving Ground, Maryland, USA

This book will present a detailed analysis of how some current ecological risk assessment (ERA) studies fall short of their intended mark. It will discuss the limitations of these studies and explain how sometimes their premises are fundamentally flawed, thus producing data that is not particularly useful. The analysis will explain that learning from past mistakes coupled with a willingness to experiment outside of the conventional studies, can lead to numerous new and useful studies that can make for significant gains in ERA. The new studies presented in the book will be strategically grouped, facilitating readers locating those that relate to their individual areas of expertise.

CRC Press
Market: Environmental Science
December 2017: 235 x 156: 234pp
Hb: 978-1-498-78617-1: **£76.99**
eBook: 978-1-351-26128-9
* For **full contents** and more information, visit: **www.crcpress.com/9781498786171**

2nd Edition • NEW EDITION

Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products, Second Edition

Guido Sonnemann, Institute of Molecular Sciences, University of Bordeaux, France, **Michael Tsang**, Institute of Molecular Sciences, University of Bordeaux, France and **Marta Schuhmacher**, ETSEQ, Universitat Rovira i Virgili, Tarragona, Spain

Series: Advanced Methods in Resource & Waste Management

The book covers the use of life-cycle assessment, risk assessment, and a combined framework of the two in the evaluation of environmental damages and sustainability constraints. The new edition will take into account new developments in the last 10 years and will extend the scope of the book to cover also products. This broader concept of integration and complementary use of life cycle and risk assessment will introduce new cases and will discuss them throughout the book. Moreover, it introduces new standards at the international level and provides the latest developments in life cycle impact assessment and environmental risk assessment as important elements of sustainability projects.

CRC Press
Market: Engineering - Environmental
July 2018: 235 x 156: 420pp
Hb: 978-1-498-78069-8: **£155.00**
eBook: 978-1-498-78070-4
Prev. Ed Hb: 978-1-566-70644-5
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TEXTBOOK • READER

Air Pollution Control

Fundamentals and Applications

Edited by **Jeff Kuo**, California State University, Fullerton, USA

Series: Fundamentals of Environmental Engineering

Air pollution control and air quality engineering are some of the key subjects in any environmental engineering curriculum. This book will cover topics that are fundamental to pollution control engineers and professionals, including air pollution and its management through regulatory approaches, calculating and estimating emissions, and appying control technologies for different forms of pollutants and emission characteristics for several key industries. In addition, it will include topics that address issues such as fugitive component leak detection and repair, odor containment and control, greenhouse gas emissions, and indoor air pollution, which are often not found in other similar books.

CRC Press
Market: Engineering - Environmental
November 2018: 235 x 156: 376pp
Hb: 978-1-138-03204-0: **£76.99**
eBook: 978-1-315-95302-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138032040**

Geothermal Energy from Oil and Gas Wells

Edited by **Jochen Bundschuh**, University of Southern Queensland (USQ), Toowoomba, QLD, Australia & Royal Institute of Technology (KTH), Stockholm, Sweden

Series: Sustainable Energy Developments

The work describes the geothermal potential of hydrocarbon reservoirs. It explains the design differences of hydrocarbon and geothermal wells and the different stimulation methods used in hydrocarbon and geothermal exploitation. Heat extraction and electric energy generation from abandoned hydrocarbon wells are also described as mechanisms to increase permeability and porosity if the corresponding natural values are too low.

CRC Press
Market: Energy
July 2018: 246x174: 300pp
Hb: 978-0-415-62090-1: **£185.00**
eBook: 978-0-203-12024-8
* For **full contents** and more information, visit: **www.crcpress.com/9780415620901**

Metropolitan Siting of Nuclear Reactors

T. S. Gopi Rethinaraj, **Andrew Palmer**, **Grahame Oliver**, **Karthik Ganesan**, National University of Singapore, Singapore and **Simran Singh**, National University of Singapore, Singapore

Siting of nuclear reactors has to consider topography, accessibility, infrastructure for transportation, construction facilities, township for staff, feasibility of power evacuation, and availability of cooling water, along with other important safety aspects related to geology, seismology, and meteorology. This book reviews the technical issues presented by metropolitan siting and looks at global trends. It includes a case study on the siting of a reactor in Singapore, which, because of its size and geographic location, provides the most stringent conditions on metropolitan siting.

CRC Press
Market: Mechanical Engineering
March 2018: 235 x 156: 200pp
Hb: 978-1-439-89234-3: **£92.00**
eBook: 978-1-439-89235-0
* For **full contents** and more information, visit: **www.crcpress.com/9781439892343**

TEXTBOOK • READER

Nuclear Reactor Thermal Hydraulics

Robert E. Masterson, Virginia Polytechnic and State University, Blacksburg, USA

Nuclear Thermal-Hydraulic Systems provides a comprehensive approach to nuclear reactor thermal-hydraulics, reflecting the latest technologies, reactor designs, and safety considertions. The text makes extensive use of color images, internet links, computer graphics, and other innovative techniques to explore nuclear power plant design and operation. Key fluid mechanics, heat transfer, and nuclear engineering concepts are carefully explained, and supported with worked examples, tables, and graphics. Intended for use in one or two semester courses, the text is suitable for both undergraduate and graduate students. A complete Solutions Manual is available for professors adopting the text.

CRC Press
Market: Engineering - Mechanical
October 2018: 254 x 203: 928pp
Hb: 978-1-138-03537-9: **£146.00**
eBook: 978-1-315-22623-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138035379**

TEXTBOOK • READER

Thermal Energy Systems

Design and Analysis, Second Edition

Steven G. Penoncello

Thermal Energy Systems: Design and Analysis, Second Edition presents basic concepts for simulation and optimization, and introduces simulation and optimization techniques for system modeling. This text addresses engineering economy, optimization, hydraulic systems, energy systems, and system simulation. Computer modeling is presented, and a companion website provides specific coverage of EES and Excel in thermal-fluid design. Assuming prior coursework in basic thermodynamics and fluid mechanics, this fully updated and improved text will guide students in Mechanical and Chemical Engineering as they apply their knowledge to systems analysis and design, and to capstone design project work.

CRC Press
Market: Engineering - Mechanical
October 2018: 254 x 178: 464pp
Hb: 978-1-138-73589-7: **£130.00**
eBook: 978-1-315-18626-9
* For **full contents** and more information, visit: **www.crcpress.com/9781138735897**

Engineering in Jointed and Faulted Rock

Nick Barton, Nick Barton & Associates, Hovik, Norway and **Stavros Bandis**, Aristotle University of Thessaloniki, Greece

This book aims to provide the background knowledge, necessary tools, and guidelines for rationalized and consistent engineering approaches to design and construction in and on jointed and faulted rock. Three avenues will be exploited to that effect: mechanics, empiricism and analysis (including numerical analysis). The text will be permeated with informative and illustrated case records from the authors' total of 40 countries sphere of experience. Solutions of every-day problems will be interspersed with experiences from the longest tunnel, the widest cavern, the highest dam, the site of the largest underground power house, and the problems with the deepest TBM tunnels.

CRC Press
Market: Rock Mechanics
July 2018: 234x156: 800pp
Pb: 978-1-138-02729-9: **£140.00**
eBook: 978-1-315-68701-8
* For **full contents** and more information, visit: **www.crcpress.com/9781138027299**

Rock Dynamics and Applications 3

Proceedings of the 3rd International Confrence on Rock Dynamics and Applications (RocDyn-3), June 26-27, 2018, Trondheim, Norway

Edited by **Charlie C. Li**, **Zong-Xian Zhang** and **Xing Li**

The book is a collection of scientific and technical papers presented at RocDyn-3. The papers reflect the recent developments in experiment, theory and engineering applications of in rock dynamics. The topics in the book are, among others, dynamic theories, numerical simulation, dynamic tests of rock, underground openings under dynamic loading, rockburst, seismic monitoring, dynamic rock support, blasting and rock structure damage by earthquake. Applications, such as rockburst, dynamic rock support and seismic monitoring, are paid special attentions in the conference. The knowledge of dynamic issues in mining and tunnelling is extremely valuable.

CRC Press
Market: Civil Engineering
June 2018: 246x174: 600pp
Hb: 978-0-815-39667-3: **£185.15**
eBook: 978-1-351-18132-7
* For **full contents** and more information, visit: **www.crcpress.com/9780815396673**

Rock Reinforcement and Rock Support

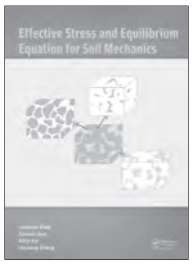
Ömer Aydan, University of the Ryukyus, Faculty of Engineering, Department of Civil Engineering and Architecture, Nishihara, Japan

Series: ISRM Book Series

The stability of underground and surface geotechnical structures during and after excavation is of great concern as any kind of instability may result in damage to the environment as well as time-consuming high cost repair work. The forms of instability, their mechanisms and the conditions associated with them must be understood so that correct stabilisation of the structure through rock reinforcement and/or rock support can be undertaken. This book aims to provide the fundamentals of rock reinforcement and support and to evaluate the reinforcement effects of rockbolts and rock anchor of rock engineering structures under various rock mass conditions both qualitatively and quantitatively.

CRC Press
Market: Rock Mechanics
January 2018: 246x174: 486pp
Hb: 978-1-138-09583-0: **£125.00**
eBook: 978-1-315-10420-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138095830**

Effective Stress and Equilibrium Equation for Soil Mechanics



Longtan Shao, Dalian University of Technology, China, **Xiaoxia Guo**, Dalian University of Technology, China, **Shiyi Liu**, Northeastern University, Liaoning, China and **Guofeng Zheng**, Dalian University of Technology, China

The concept of effective stress and effective stress equation are fundamental for establishing the theory of soil mechanics and poromechanics. However, up till now, the physical meaning of effective stress has not been explained clearly, and the theoretical basis of effective stress equation has not been proposed. This book is a primary reading for the theory of soil mechanics in a new viewpoint. The audience of this book is senior undergraduates, graduate students, academics, and researchers major in soil mechanics, poromechanics, civil engineering, hydraulic engineering, traffic engineering, mining engineering and petroleum engineering.

CRC Press
Market: Civil Engineering
December 2017: 246x174: 150pp
Hb: 978-1-138-09231-0: **£110.00**
eBook: 978-1-315-10755-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138092310**

Geospatial Technologies for Land Degradation Assessment and Management

R. S. Dwivedi, Jawaharlal Nehru Technological University, Hyderabad, India

Land degradation is caused by multiple forces, including extreme weather conditions particularly drought, and human activities that pollute or degrade the quality of soils and land utility negatively affecting food production, livelihoods, and the production and provision of other ecosystem goods and services. This book introduces the basic concepts of GIS and remote sensing and explores the basic aspects of land degradation. It covers mostly the physical and physic-chemical processes of soil loss. It combines different methods and approaches for land degradation monitoring and assessment and help readers understand and design sustainable land management strategies.

CRC Press
Market: Environmental Science
July 2018: 235 x 156: 352pp
Hb: 978-1-498-74960-2: **£110.00**
eBook: 978-1-498-74961-9
* For **full contents** and more information, visit: **www.crcpress.com/9781498749602**

Geosynthetic-Encased Granular Columns on Soft Soils: Design and Performance

Marcio Almeida, **Mario Riccio**, **Iman Hosseinpour** and **Dimiter Alexiew**, Consultant Geosynthetics & Geotechnics

This book deals with "geosynthetic encased granular columns", a relatively new technique used for the ground improvement of soft soils. The GEC construction technique has thusfar been used mainly in Europe, and is well supported by a number of calculation methods and is a suitable substitute for the more traditional stone columns technique which has a less satisfactory performance when applied to very soft soils. The book discusses the calculations methods used for design of GEC, with the aids of pre-design charts and well-documented case histories, showing field response of embankments supported by soft soils improved with GEC.

CRC Press
Market: Civil Engineering
June 2018: 246x174: 225pp
Hb: 978-1-138-03878-3: **£115.00**
eBook: 978-1-315-17714-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138038783**

Global Soil Security: Soil Science-Society Interfaces

Proceedings of the 2nd Global Soil Security Conference, December 5-6, 2016, Paris, France

Edited by **Dominique Arrouays**, INRA-InfoSol Unit, Orléans, France, **Florence Carre**, **Anne Richer de Forges** and **Alex B. McBratney**, The University of Sydney, Sydney, Australia

Soil, this highly pressurized and crucial resource, is indispensable partner to meet sustainable development goals. The demonstration is done by linking businesses, practitioners, policymakers and researchers on soil security dimensions through good working practices, business solutions, scientific outcomes and international initiatives that enhance protection and sustainable management of soils. The book will gather reviwed full papers of keynotres and presentation given at the 2nd international conference on Global Soil Security held in Paris, on 5-6 December 2016.

CRC Press
Market: Geosciences
March 2018: 246x174: 350pp
Hb: 978-1-138-09305-8: **£115.00**
eBook: 978-1-315-10707-3
* For **full contents** and more information, visit: **www.crcpress.com/9781138093058**

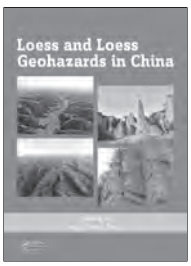
Handbook of Soil Mix Walls

Edited by **Noel Huybrechts**, Department of Civil Engineering, KU Leuven, Belgium and **Nicolas Denies**, WTCB, Brussels, Belgium

This publication was initiated because no standard or guideline was available for the execution, the design and the quality control of the soil mix structure that is especially important in the construction of soil mix walls. A methodology is proposed for the design of the soil mix walls for which the interaction between steel and soil mix can be taken into account dependent upon the application. Each potential function of the soil mix wall is described (e.g. earth retaining wall, cut-off wall, etc.) and the temporary or permanent character of the application (its lifetime) is considered. Furthermore, the design methodology presented in this handbook is in agreement with the Eurocodes.

CRC Press
Market: Civil Engineering
January 2018: 246x174: 600pp
Hb: 978-9-053-67641-7: **£180.00**
* For **full contents** and more information, visit: **www.crcpress.com/9789053676417**

Loess and Loess Geohazards in China



Yanrong Li, Taiyuan University of Technology, Taiyuan, China, **Jingui Zhao**, Taiyuan University of Technology, Taiyuan, China and **Bin Li**, Taiyuan University of Technology, Taiyuan, China

As a newly formed sediment, loess covers about 10% of the Earth's surface area. The loess covered areas are regions of dense industrial and agricultural development and population concentration in the World, and are also significant in wheat production. This book represents a valuable addition to the literature on loess geology. It details the origin, formation, landform, structure, strength and geohazards of loess, and gives an overall and in-depth view of loess. It will be of value to readers interested in Earth Sciences, Environmental Sciences, Ecology, Sociology and other related subjects.

CRC Press
Market: Civil Engineering
November 2017: 246x174: 160pp
Hb: 978-1-138-03863-9: **£92.00**
eBook: 978-1-315-17728-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138038639**

2nd Edition • TEXTBOOK • READER

Soil and Water Contamination, 2nd Edition

Marcel van der Perk

Providing a structured overview of transport and fate processes of environmental contaminants, this textbook approaches the environmental issues of soil and water contamination from a spatial and earth science point of view. The new edition contains new material on pesticides and pharmaceutical contaminants and a greater number of exercises, case studies, and examples. It covers topics essential to understanding and predicting contaminant patterns in soil, groundwater, and surface water and contributes to the formation of a solid basis for adequate management and control of soil and water pollution and integrated catchment.

CRC Press
October 2017: 246x174
Hb: 978-1-138-46871-9: **£145.00**
Pb: 978-0-415-89343-5: **£70.00**
eBook: 978-0-203-76889-1
* For **full contents** and more information, visit: **www.crcpress.com/9781138468719**

Amphibious Building Design and Construction

Chris Zevenbergen, UNESCO-IHE, Delft, The Netherlands and **Elizabeth English**, Waterloo Architecture, University of Waterloo, Cambridge, ON, Canada

Amphibious Buildings refers to buildings that rest on the ground in normal conditions and rise with floodwater. This is an emerging area of building in a time that many cities are dealing with an increasing amount of floodwater, and lack of space for urban development. This book explains the principles of amphibious construction through the concepts of design. It includes an extensive coverage of building construction practice and techniques, representing both vernacular and contempary developments. A useful reference for architects, building owners, building managers and operators, contractors, and others in the building industry.

CRC Press
Market: Architecture / Civil Engineering
July 2018: 246x174: 350pp
Hb: 978-0-415-62121-2: **£69.99**
* For **full contents** and more information, visit: **www.crcpress.com/9780415621212**

Bridge Maintenance, Safety and Management

Proceedings of the Ninth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July, 2018, Melbourne, Australia

Edited by **Nigel Powers** and **Dan M. Frangopol**, Lehigh University, Bethlehem, PA, USA

Series: Bridge Maintenance, Safety and Management

Extensive collection of revised expert papers on recent advances in bridge maintenance, safety, management and life-cycle performance, representing a major contribution to the knowledge base of all areas of the field. It will serve as a valuable reference to all involved with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering. Set of book comprising keynote papers and extended abstracts plus searchable, full-paper DVD-ROM.

CRC Press
Market: Civil Engineering
July 2018: 246x174: 1000pp
Hb: 978-1-138-73045-8: **£210.00**
eBook: 978-1-315-18939-0
* For **full contents** and more information, visit: **www.crcpress.com/9781138730458**

Empirical Design Methods in Mining

An Approach Towards the Design of Mine Structures

Antonio Samaniego, SRK Consulting, Lima, Peru, **Doug Milne**, Faculty of Engineering, University of Saskatchewan, Saskatoon, Canada, **Rimas Pakalnis**, Pakalnis & Associates, Vancouver, BC, Canada and **Paul Hughes**, Faculty of Engineering, University of Saskatchewan, Saskatoon, Canada

Series: ISRM Book Series

This book has been written with the mine operator in mind. Much has been written on the procedures to gather and analyze data for implementing into a design process. Although there is wide experience and expertise in the design of mine openings, it has not been compiled into a volume that enables users to engineer their work place based upon past experience and practice augmented by sound engineering principles. Empirical Methods are the most widely used design techniques employed within the mining industry largely due to their success in the design of mine structures.

CRC Press
Market: Civil Engineering
September 2018: 246x174: 350pp
Hb: 978-1-138-09251-8: **£115.00**
eBook: 978-1-315-10741-7
* For **full contents** and more information, visit: **www.crcpress.com/9781138092518**

Geotechnical Aspects of Underground Construction in Soft Ground

Proceedings of the 9th International Symposium on Geotechnical Aspects of Underground Construction in Soft Grounds (IS-São Paulo 2017), April 4-6, 2017, São Paulo, Brazil

Edited by **Arsenio Negro** and **Marlísio O. Cecílio Jr.**

This collection of papers represents a valuable source of reference on the current practice of analysis, design, and construction of tunnels and deep excavations in soft ground, and is particularly aimed at academics and professionals interested in geotechnical and underground engineering.

CRC Press
Market: Civil Engineering
December 2017: 246x174: 362pp
Hb: 978-1-138-29711-1: **£125.00**
eBook: 978-1-315-09950-7
* For **full contents** and more information, visit: **www.crcpress.com/9781138297111**

2nd Edition • NEW EDITION

Mechanized Tunnelling in Urban Areas, 2nd edition

Design methodology and construction control

Edited by **Vittorio Guglielmetti**, **Piergiorgio Grasso**, **Ashraf Mahtab** and **Shulin Xu**, Geodata S.p.A., Torino, Italy

Mechanized tunnelling in urban areas has not previously received the attention that it deserves, despite there being specific hazards associated with the construction of tunnels in metropolitan areas. The application of technologies for achieving stability of tunnels and for minimizing surface settlement is described in this book. Accurate characterisation of the ground; rigorous assessment and management of risk from design to maintenance; the correct choice of a tunnel boring machine and a plan for the advancement of the tunnel; specific excavation procedures and real-time monitoring of excavation parameters are all discussed in this wholly revised and updated second edition.

CRC Press
Market: Civil Engineering; Tunnelling
September 2018: 246x174: 550pp
Hb: 978-1-138-00027-8: **£99.00**
eBook: 978-0-203-77144-0
Prev. Ed Hb: 978-0-415-42010-5
* For **full contents** and more information, visit: **www.crcpress.com/9781138000278**

Modeling and Computation in Engineering IV

Proceedings of the 4th International Conference on Modeling and Comutation in Engineering (CMCE 2017), December 2-3, 2017, Shanghai, PR China

Edited by **Jinrong Zhu**

The International Conference on Modeling and Computation in Engineering (CMCE) aims to bring together academic scientists, leading engineers, industry researchers and scholar students to exchange and share their experiences and research results about all aspects of modeling and computation in engineering, and discuss the practical challenges encountered and the solutions adopted.

CRC Press
Market: Civil Engineering
February 2018: 246x174: 400pp
Hb: 978-0-815-38668-1: **£140.99**
eBook: 978-1-351-17522-7
* For **full contents** and more information, visit: **www.crcpress.com/9780815386681**

Physical Modelling in Geotechnics

Proceedings of the 9th International Conference on Physical Modelling in Geotechnics (ICPMG 2018), July 17-20, 2018, London, United Kingdom

Edited by **Andrew McNamara**, City University, London, United Kingdom

The 9th International Conference on Physical Modelling in Geotechnics (ICPMG 2018) will take place on July 17-20, 2018 at City, University of London. The main theme of this conference will be to communicate and disseminate recent developments in all aspects of geotechnical physical modelling.

CRC Press
Market: Civil Engineering
July 2018: 246x174: 1350pp
Hb: 978-1-138-55975-2: **£245.00**
eBook: 978-0-203-71227-6
* For **full contents** and more information, visit: **www.crcpress.com/9781138559752**

Proceedings of the Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE 2018), 28-31 October 2018, Ghent, Belgium

Edited by **Robby Caspeele**, **Luc Taerwe** and **Dan M. Frangopol**, Lehigh University, Bethlehem, PA, USA

Series: Life-Cycle of Civil Engineering Systems

This volume contains the papers presented at IALCCE 2018, the Sixth International Symposium on Life-Cycle Civil Engineering, to be held in Ghent, Belgium, October 28-31, 2018. It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R. Khan lecture, keynote lectures, and technical papers. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools.

CRC Press
Market: Structural/Civil Engineering
October 2018: 246x174: 800pp
Hb: 978-1-138-62633-1: **£230.00**
eBook: 978-1-315-22891-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138626331**

Technology Drivers: Engine for Growth

Proceedings of the 6th Nirma University International Conference on Engineering (NUiCONE 2017), November 23-25, 2017, Ahmedabad, India

Edited by **Alka Mahajan**

NUiCONE 2017 is a multidisciplinary event encompassing themes related to various disciplines of Engineering and Technology. The objective of the conference is to bring engineers from industry, academia, and other research organizations on a common platform to share new ideas, experiences and knowledge in fields such as: chemical process development and design, technologies for green environment, advances in transport engineering, water resources and evironmental engineering, construction technology and management, concrete and structural engineering, sustainable manufacturing processes, design and analysis of machine and mechanism and energy conservation and management.

CRC Press
Market: Civil Engineering
March 2018: 246x174: 350pp
Hb: 978-1-138-56042-0: **£130.00**
eBook: 978-0-203-71314-3
* For **full contents** and more information, visit: **www.crcpress.com/9781138560420**

Tubular Structures XVI

Proceedings of the 16th International Symposium for Tubular Structures (ISTS 2017, 4-6 December 2017, Melbourne, Australia)

Edited by **Amin Heidarpour** and **Xiao-Ling Zhao**, Monash University, Australia

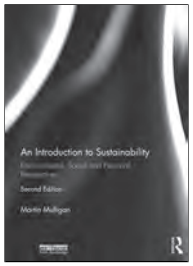
Containing the latest scientific and engineering developments in the field of tubular steel structures, *Tubular Structures XVI* is a pertinent reference source for academics and professionals. The contributions cover various key and emerging subjects in the field of tubular structural sections, such as composite tubular members and connections, stainless and high-strength steel structures, material properties and section forming, and tubular structures under extreme loading including fire, earthquake, impact and blast.

CRC Press
Market: Civil Engineering
November 2017: 246x174: 702pp
Hb: 978-0-815-38134-1: **£185.00**
eBook: 978-1-351-21084-3
* For **full contents** and more information, visit: **www.crcpress.com/9780815381341**

2nd Edition • TEXTBOOK • READER

An Introduction to Sustainability

Environmental, Social and Personal Perspectives



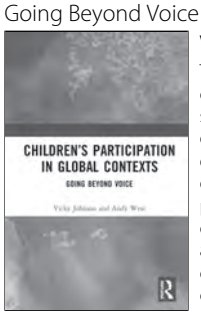
Martin Mulligan, RMIT University, Australia

An Introduction to Sustainability provides students with a comprehensive overview of the key concepts and ideas which are encompassed within the growing field of sustainability. The fully updated second edition, including new figures and images, teases out the diverse but intersecting domains of sustainability and emphasises strategies for action. This textbook is an essential companion to any sustainability course.

Routledge
Market: Environment, Sustainability
October 2017: 246x174: 338pp
Hb: 978-1-138-69829-1: **£110.00**
Pb: 978-1-138-69830-7: **£35.99**
eBook: 978-1-315-51945-6
Prev. Ed Hb: 978-0-415-70643-8
* For **full contents** and more information, visit: **www.routledge.com/9781138698291**

Children's Participation in Global Contexts

Going Beyond Voice



Vicky Johnson, University of Brighton, UK and **Andy West**

This book offers an analysis of children's participation in formal, collective and participatory processes in six different international settings with a view to extending our learning about what helps or facilitates children and young people's participation in decision-making to effect change. It considers the implications of this for the development of policy and practice around participation. This analysis is set in the context of historical and current discourses of participation, childhood studies, education and international development. It promotes an approach to children's participation as relational, capacity building, and collaborative.

Routledge
Market: Social Work / Children / Education
March 2018: 234x156: 248pp
Hb: 978-1-138-92979-1: **£115.00**
eBook: 978-1-315-68094-1
* For **full contents** and more information, visit: **www.routledge.com/9781138929791**

Communicating Sustainability

Edited by **Margaret Robertson**, Lane Community College, USA

The topic of sustainability is vast and complex and includes multiple aspects of human culture and the biosphere which are connected to each other, impact each other, and depend on each other; it involves myriad systems and processes, many of which are too large, too small, too fast, or too slow to see. This bookuses evidence-based strategies to make sustainability vivid, accessible, and comprehensible. Like the field of sustainability itself, the multidisciplinary array of disconnected research is complex and confusing to most people, when it is seen at all.

Routledge
Market: Environment, Sustainability
August 2018: 234x156: 264pp
Hb: 978-1-138-96305-4: **£110.00**
Pb: 978-1-138-96306-1: **£31.99**
eBook: 978-1-315-65901-5
* For **full contents** and more information, visit: **www.routledge.com/9781138963054**

Cultural Sustainability

Perspectives from the Humanities and Social Sciences

Edited by **Torsten Meireis** and **Gabriele Rippl**

Series: Routledge Studies in Culture and Sustainable Development

Collating contributions from internationally renowned theoreticians of culture and leading researchers working in the humanities and social sciences, this volume presents an in-depth, interdisciplinary discussion of the concept of cultural sustainability and the public visibility of such research. Beginning with a discussion of the concept of cultural sustainability, it goes on to explore its interaction with philosophy, sociology, economics, arts and literature. In doing so, the book develops a much needed concept of 'culture' that can be adapted to various disciplines and applied to research on sustainability.

Routledge
Market: Environment, Sustainability
October 2018: 234x156: 304pp
Hb: 978-0-815-35754-4: **£115.00**
eBook: 978-1-351-12430-0
* For **full contents** and more information, visit: **www.routledge.com/9780815357544**

Cultural Sustainability and the Nature-Culture Interface

Livelihoods, Policies, and Methodologies

Edited by **Inger Birkeland**, Telemark University College, Norway, **Rob Burton**, Centre for Rural Research (Bygdeforskning), Norway, **Constanza Parra**, University of Leuven, Belgium and **Katriina Siivonen**

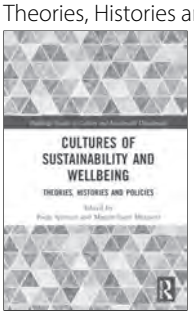
Series: Routledge Studies in Culture and Sustainable Development

A cultural perspective on environmental sustainability enables a renewal of sustainability discourse and practices across rural and urban landscapes, natural and cultural systems, stressing heterogeneity and complexity. The book focuses on the nature-culture interface conceptualised as a meeting-place where experiences, practices, policies, ideas and knowledges meet, are negotiated, discussed and resolved. Rather than looking for lost unities, or an imaginary view of harmonious relationships between humans and nature based in the past, it explores cases of interfaces that are context-sensitive and which consciously convey the problems of scale and time.

Routledge
Market: Environment, Sustainability
March 2018: 234x156: 272pp
Hb: 978-1-138-65049-7: **£115.00**
eBook: 978-1-315-62529-4
* For **full contents** and more information, visit: **www.routledge.com/9781138650497**

Cultures of Sustainability and Wellbeing

Theories, Histories and Policies



Edited by **Paola Spinozzi** and **Massimiliano Mazzanti**

Series: Routledge Studies in Culture and Sustainable Development

Cultures of Sustainability and Wellbeing: Theories, Histories and Policies examines and assesses the interdependence between sustainability and wellbeing by drawing attention to humans as producers and consumers in a post-human age. Why wellbeing ought to be regarded as essential to sustainable development is explored from multifocal theoretical perspectives, in relation to institutions and policies, and with a focus on specific case studies. This book will be of great interest to students and researchers interested in sustainability through conceptual and empirical approaches.

Routledge
Market: Environment, Sustainability
November 2017: 234x156: 334pp
Hb: 978-1-138-23454-3: **£110.00**
eBook: 978-1-315-30659-9
* For **full contents** and more information, visit: **www.routledge.com/9781138234543**

Digital Technology and Sustainability

Engaging the Paradox

Edited by **Mike Hazas**, Lancaster University, UK and **Lisa Nathan**, University of British Columbia, Canada

Series: Routledge Studies in Sustainability

This book brings together diverse voices from across the field of sustainable human computer interaction (SHCI) to discuss what it means for digital technology to support sustainability and how humans and technology can work together optimally for a more sustainable future. Written by an interdisciplinary team of contributors this book will be of great interest to students and scholars of human computer interaction and environmental studies.

Routledge
Market: Environment, Sustainability
November 2017: 234x156: 260pp
Hb: 978-1-138-20588-8: **£115.00**
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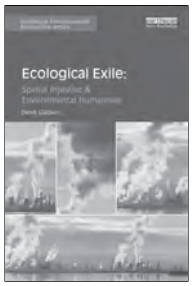
Ecological Exile

Spatial Injustice and Environmental Humanities



Derek Gladwin, University of British Columbia, Canada

Series: Routledge Environmental Humanities

This book explores how spatial injustices result from geographical and environmental circumstances in the North Atlantic – from population displacement and uneven development to pollution and climate change – through creative works in the environmental humanities.

Routledge
Market: Environment, Sustainability
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Hb: 978-1-138-18968-3: **£115.00**
eBook: 978-1-315-64147-8
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Education for Sustainable Human and Environmental Systems

From Theory to Practice

Edited by **Will Focht**, **Michael Reiter**, **Paul Barresi** and **Richard Smardon**

Series: Routledge Studies in Sustainability

The SHES approach to sustainability education relies on complexity-based systems thinking that transcends disciplinary boundaries. This book provides a comprehensive guide to the SHES approach, including the rationale and theory behind it, its pedagogy and practical applications in curricula and ways to support the approach through administration. This book will be of great interest to academics and students of education, environmental sciences and studies, sustainability and sustainable development, natural resource management, conservation, environmental policy, environmental planning, and related fields in higher education.

Routledge
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Engineering Education for Sustainable Development

A Capabilities Approach

Mikateko Mathebula

Series: Routledge Studies in Sustainable Development

This book demonstrates how the theoretical concepts of the capabilities approach can be applied in the context of engineering education and how this could be used to positively influence sustainable development. Engineering employers, educators and students discuss both the capabilities and functions that are enlarged through engineering education and the impact these can have on pro-poor engineering.

Routledge
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Everyday Lifestyles and Sustainability

The Environmental Impact Of Doing The Same Things Differently

Edited by **Fabricio Chicca**, Victoria University of Wellington, New Zealand, **Brenda Vale**, Victoria University of Wellington, New Zealand and **Robert Vale**, Victoria University of Wellington, New Zealand

This book explores why apparently similar patterns of daily living can lead to larger and smaller environmental impacts. The contributors describe daily life in many different places in the world and then calculate the environmental impact of these ways of living using Ecological Footprint methods.

Routledge
Market: Environment/Sustainability
March 2018: 234x156: 272pp
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eBook: 978-1-315-52913-4
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Making Jeans Green

Linking Sustainability, Business and Fashion

Paulina Szmydke-Cacciapalle

Series: Routledge Studies in Sustainability

Consumers spend approximately $60 billion on denim products every year. This consumption comes at a great cost, with thousands of litres of fresh water, hazardous chemicals and energy contributing to just one pair of jeans, leaving the environment and the industry vulnerable to climate change. Using facts, figures, case studies and anecdotes, this book investigates why the denim industry has been so slow to adopt green technologies and offers practical solutions to designers and fashion executives who want to switch to cleaner manufacturing, including those working in the 'fast fashion' sector.

Routledge
Market: Environment / Sustainability
July 2018: 234x156: 224pp
Hb: 978-0-815-39185-2: **£110.00**
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eBook: 978-1-351-20055-4
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Measuring Intangible Values

Rethinking how to evaluate socially beneficial actions

Marie Harder

This book explores the complex problem of how to measure the 'success' of social organisations, projects and activities. *Measuring Intangible Values* argues that we *can* make shared social values – and their measurement - centralto decisions about improving civil society. But because these social values are intangible, we need to develop ways of eliciting and validating them at the local level that can capture people's shared meanings across multiple goals and perspectives.

Routledge
Market: Research Methods / Sustainability
August 2018: 234x156: 256pp
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Religion, States and Societies in Africa and Asia

Carole Rakodi, University of Birmingham, UK

Series: Routledge Research in Religion and Development

This book develops a rounded picture of the varied roles that religion plays in the lives of individuals and the societies in which they live in the global South. It analyses the interplay between religious values and practices and individual lives, movements for social change, economic activities, social action by religious organisations and politics. The book will be of interest to academics and students working in a range of disciplines, especially sociology, political science and religious studies, but also development studies, anthropology, geography, area studies and economics.

Routledge
Market: Development Studies / Religion and Development
October 2018: 234x156: 240pp
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Metagovernance and the Sustainable Development Goals

A Framework for Implementation

Louis Meuleman

Series: Routledge Studies in Sustainable Development

The 17 Sustainable Development Goals (SDGs) connect the big challenges of our time, such as hunger and poverty, climate change, health in an urbanised environment, and sustainable energy, mobility and economic development. This book tests the hypothesis that the implementation of sustainable development cannot be successful without metagovernance. Based on the growing literature on governance and metagovernance, it presents a framework for the design and management of SDG implementation. This book will be of great interest to scholars, students and policy-makers studying Sustainable Development, Governance and Metagovernance, Public Management and Capacity Building.

Routledge
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September 2018: 234x156: 304pp
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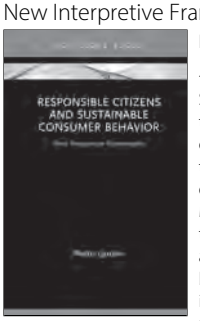
Responsible Citizens and Sustainable Consumer Behavior

New Interpretive Frameworks



Pietro Lanzini

Series: Routledge-SCORAI Studies in Sustainable Consumption

Stemming from a thorough discussion of existing approaches, this book argues that the perspective of analysis regarding consumer behaviour has to be modified. First, acknowledging that a profile of the *responsible consumer* does not exist since all of us can be more or less sustainable and environment-friendly. Moreover, the book hypothesises that integrating dimensions that have been so far overlooked by mainstream research will achieve a new model capable of deconstructing responsible behaviours using a flexible and holistic approach. The implications for policy are discussed in detail, and empirical research on responsible behaviours is illustrated.

Routledge
Market: Environment and Sustainability
October 2017: 216x138: 124pp
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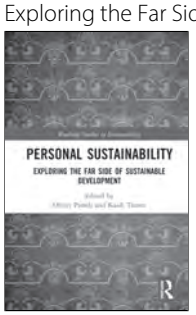
Personal Sustainability

Exploring the Far Side of Sustainable Development



Edited by **Oliver Parodi** and **Kaidi Tamm**

Series: Routledge Studies in Sustainability

This book argues that increased research into the emerging field of personal sustainability will help jump start progress towards a sustainable world. Together with authors from diverse fields, and supported by contributions of practitioners, the editors of this book portray different approaches to personal sustainability and reflect on their potential and pitfalls. This book will be of great interest to researchers and students in the field of sustainability and sustainable development, as well as researchers from philosophy, anthropology, psychology, sociology, cultural studies, ethnology, educational research, didactics, aesthetics, economics, business and public administration.

Routledge
Market: Development / Sustainable Development
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TEXTBOOK • READER

Sustainability in Transition

Principles for Developing Solutions

Travis Gliedt, The University of Oklahoma, USA and **Kelli Larson**, Arizona State University, USA

Sustainability in Transition: Principles for Creating Change and Solutions offers the first in-depth education-focused treatment of how to address sustainability in a comprehensive manner. The textbook is structured as a learning-centered approach to walk students through the process of linking environmental behavior and decision-making to green innovation systems and green economic development practices, in order to achieve sustainable change in incremental to transformational ways.

Routledge
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July 2018: 234x156
Hb: 978-1-138-69009-7: **£110.00**
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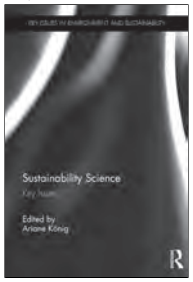
TEXTBOOK • READER

Sustainability Science

Key Issues



Edited by **Ariane König**, Université du Luxembourg, Luxembourg and **Jerome Ravetz**, Oxford University, UK

Series: Key Issues in Environment and Sustainability

Sustainability Science: Key issues is a comprehensive textbook for undergraduates and postgraduates from any disciplinary background studying the theory and practice of sustainability science. Each chapter takes a critical and reflective stance on a key issue of sustainability from contributors with diverse disciplinary perspectives such as economics, physics, agronomy and ecology.

This is the ideal book for students and researchers engaged in problem and project based learning in sustainability science.

Routledge
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eBook: 978-1-315-62032-9
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Sustainability Transitions in South Africa

Edited by **Najma Mohamed**

Series: Routledge Studies in Sustainability

South Africa's transition to a green economy features prominently in the long-term development vision for the country, and is an integral part of the country's national climate change response strategy. This book explores South Africa's progress in transitioning to a low-carbon, resource-efficient and pro-employment development path through reflections on the critical policy, economic, technological, social and environmental drivers. It provides a synthesis of theoretical insights, including new models and concepts, and praxis through illustrations from South Africa's growing landscape of green economy policies and programmes.

Routledge
Market: Development / Sustainable Development
August 2018: 234x156: 176pp
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Sustainable Modernity

The Nordic Model and Beyond

Edited by **Nina Witoszek**, University of Oslo, Norway and **Atle Midttun**

Series: Routledge Studies in Sustainability

Contributors provide insights from the humanities, the social sciences, and the latest developments in evolutionary science to cast new light onto how the Nordic countries have forged sustainable, inclusive, and productive communities. This book will be of great interest to students and scholars of political science, sociology, history, institutional economics, Nordic studies and human evolution studies.

Routledge
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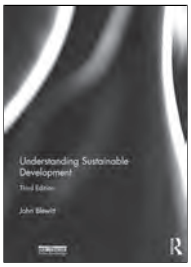
3rd Edition • TEXTBOOK • READER

Understanding Sustainable Development



John Blewitt, Aston University, UK

A truly comprehensive introduction to the topic, *Understanding Sustainable Development* is designed to give students on a wide range of courses an appreciation of the key concepts and theories of sustainable development. Fully updated, the third edition includes detailed coverage of the Sustainable Development Goals and their impact on global development.

Routledge
Market: Environment and Sustainability/Sustainable Development
December 2017: 246x174: 418pp
Hb: 978-1-138-20593-2: **£115.00**
Pb: 978-1-138-20595-6: **£32.99**
eBook: 978-1-315-46585-2
Prev. Ed Hb: 978-0-415-70781-7
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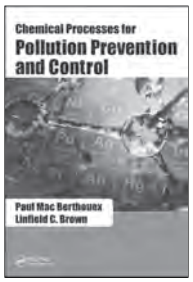
TEXTBOOK • READER

Chemical Processes for Pollution Prevention and Control



Paul Mac Berthouex, University of Wisconsin, Madison, USA (retired) and **Linfield C. Brown**, Tufts University, Medford, MA, USA

This book examines how chemistry, chemical processes, and transformations are used for pollution prevention and control. Pollution prevention reduces or eliminates pollution at the source, whereas pollution control involves destroying, reducing, or managing pollutants that cannot be eliminated at the source. Applications of environmental chemistry are further illustrated by nearly 150 figures, numerous example calculations, and several case studies designed to develop analytical and problem solving skills. The book presents a variety of practical applications and is unique in its integration of pollution prevention and control, as well as air, water, and solid waste management.

CRC Press
Market: Engineering - Environmental
October 2017: 254 x 178: 232pp
Hb: 978-1-138-10632-1: **£76.99**
eBook: 978-1-315-10162-0
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In-Situ Burning for Oil Spill Countermeasures

Merv Fingas, Environmental Engineering Consultant, Edmonton, Alberta, Canada

In-situ burning is recognized as a viable alternative for cleaning up oil spills on land and water. It can rapidly reduce the volume of spilled oil and eliminate the need to collect, store, transport, and dispose of recovered oil, and can also shorten the response time to a spill, thus reducing the chances that the spill will spread on the water surface or further into land. This book will serve as a comprehensive reference for all aspects of in-situ burning of oil spills and include the scientific aspects of the burning process and the related effects, as well as practical information about the procedures to be followed and equipment required for carrying out an in-situ burn.

CRC Press
Market: Environmental Engineering
June 2018: 235 x 156: 296pp
Hb: 978-1-138-73525-5: **£115.00**
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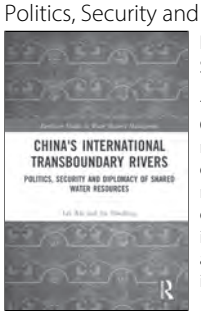
China's International Transboundary Rivers

Politics, Security and Diplomacy of Shared Water Resources



Lei Xie, Chinese Academy of Sciences, China and **Jia Shaofeng**, Chinese Academy of Sciences, China

Series: Earthscan Studies in Water Resource Management

China has 40 major transboundary watercourses with neighbouring countries. This book provides an understanding of water security in Asia by investigating how shared water resources affect China's relationships with neighbouring countries in South, East, Southeast and Central Asia. It investigates China's policy responses to domestic water crises and examines China's international water policy as well as its strategy in dealing with international cooperation.

Routledge
Market: Environment & Sustainability / Politics / Asian Studies
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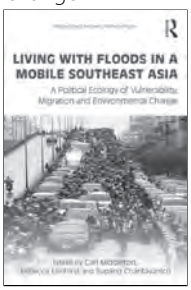
Living with Floods in a Mobile Southeast Asia

A Political Ecology of Vulnerability, Migration and Environmental Change



Edited by **Carl Middleton**, Chulalongkorn University, Thailand, **Rebecca Elmhirst**, University of Brighton, UK and **Supang Chantavanich**, Chulalongkorn University, Thailand

Series: Routledge Studies in Development, Mobilities and Migration

This volume contributes to a better understanding of the relationship between migration, vulnerability and resilience associated with flooding across diverse environmental, social and policy contexts in Southeast Asia. It challenges simple analyses of flooding as a singular driver of migration, and instead considers the ways in which floods figure in migration-based livelihoods and amongst already mobile populations. The book sets out a conceptual framework based on a 'mobile political ecology,' organised around a series of tightly-argued empirical case studies from countries in the ASEAN region.

Routledge
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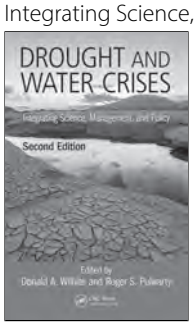
Drought and Water Crises

Integrating Science, Management, and Policy, Second Edition



Edited by **Donald Wilhite**, School of Natural Resources, University of Nebraska, Lincoln, NE and **Roger S. Pulwarty**, NOAA

Series: Drought and Water Crises

This book discusses advances towards the drought risk reduction approach with the development of new water-conserving technologies, planning, vulnerability assessment, and mitigation tools as it discusses drought management in the light of global climate change and public policy actions. This new edition emphasizes the paradigm shift from managing disasters to managing risk, reflecting the global emphasis that has evolved in recent years, a new focus that shines light on the preparedness and the tools and methods that are essential in drought risk reduction.

CRC Press
Market: Environmental Science
October 2017: 235 x 156: 542pp
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Natural Infrastructure for Achieving Water Security

The Role of Ecosystems in the Water Cycle

Edited by **Mike Acreman**, **David Coates**, **Nick Davidson** and **Rob McInnes**

Series: Earthscan Studies in Water Resource Management

There is increasing recognition that key processes in the water cycle are better regulated by the natural environment than by hard built infrastructure, to deliver water for public supply, irrigated agriculture and energy production and to control floods. This book assesses the potential for delivering water management solutions through either conserving or restoring the natural infrastructure of ecosystems, including wetlands, forests and grasslands and their interactions in the landscape.

Routledge
Market: Environment, Hydrology
August 2018: 234x156: 288pp
Hb: 978-0-815-36025-4: **£110.00**
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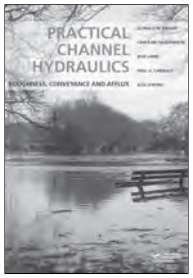
Practical Channel Hydraulics, 2nd edition

Roughness, Conveyance and Afflux



Donald W. Knight, The University of Birmingham, Edgbaston, UK, **Caroline Hazlewood**, **Rob Lamb**, **Paul G. Samuels**, Water Management, HR Wallingford, UK and **Koji Shiono**

This 2nd Edition of *Practical Channel Hydraulics* provides further background to the Conveyance Estimation System (CES) and the Shiono and Knight Method (SKM) for estimating stage-discharge relationships. Worked examples for a range of channel types and discharges, ranging from laboratory flumes to river sites in the UK, France, China, New Zealand and Ecuador are considered (= 2.0 ls^{-1} to 23,000 m^{3-1}). These illustrate their capabilities for evaluating stage-discharge relationships, as in ISO 18320, the distribution of boundary shear stresses and drag forces on trees. This book is intended for post-graduate students, practising engineers and hydrologists engaged in flood risk management.

CRC Press
Market: Civil Engineering
March 2018: 246x174: 625pp
Hb: 978-1-138-06858-2: **£155.00**
eBook: 978-1-315-15777-1
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Smart Water Grids

A Cyber-Physical Systems Approach

Edited by **Panagiotis Tsakalides**, **Athanasia Panousopoulou**, **Grigorios Tsagkatakis** and **Luis Montestruque**

This book will present the best practices for designing, implementing, and deploying cyber-physical systems tailored to the needs of smart water grids. These grids can utilize the intelligence, autonomy, and adaptability offered by CPS for data on consumption, new alternatives for water treatment and reusability, and the impacts of climate change on water sources and urban infrastructure. It will examine topics such as smart sensing, distributed processing, networked control, enabling technologies, and heterogeneous networked topologies, and will also include case studies which will cover different aspects of the water life cycle, such as desalination, distribution, treatment, and recycling.

CRC Press
Market: Water Science & Engineering
March 2018: 235 x 156: 348pp
Hb: 978-1-138-19793-0: **£125.00**
eBook: 978-1-315-27180-4
* For **full contents** and more information, visit: **www.crcpress.com/9781138197930**

TEXTBOOK • READER

Principles of Stormwater Management

Roger D. Griffin, Griffin Environmental International, Irvine, California, USA

This book presents of all aspects of storm water management: the hydrologic cycle, sources of contaminants, standards applicable to discharges, regulatory issues, atmospheric deposition, best management practices, and health/environmental impacts. It includes technical details of the modern treatment of stormwater, the emerging issues of atmospheric deposition, run-on, and snow melt, the Epidemiologic Model, and field data on discharge concentrations of a variety of contaminants. The principles explained in this book will enable students, contractors, developers, and engineers to grasp the most important field elements which must be included for construction projects impacting stormwater.

CRC Press
Market: Water Science & Engineering
March 2018: 235 x 156: 322pp
Hb: 978-1-138-09362-1: **£100.00**
eBook: 978-1-351-11375-5
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Sustainable Urban Water Reuse

Planning Tools, Processes, and Applications

Sandra Reinstädtler

As water reuse technologies help to reduce the exploitation of freshwater resources, they also help alleviate water demand for drinking, manufacturing, sanitation, leisure purposes, and land use, such as agriculture. This book will examine ways to improve both the quality and quantity of water resources with particular emphasis on urban water reuse planning. It will highlight three separate planning tools: Environmental Impact Assessment (EIA), Strategic Environmental Assessment (SEA), and Integrated Landscape Approaches (ILA). Each of these tools will be thoroughly examined, and the ideal application for each with regard to spatial, environmental, and landscape planning will be discussed.

CRC Press
Market: Water Science & Engineering
November 2018: 235 x 156: 200pp
Hb: 978-1-138-19788-6: **£82.00**
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3rd Edition • NEW EDITION

Safe Work Practices for Wastewater Treatment Plants, Third Edition

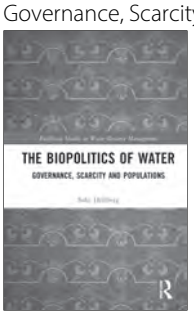
Frank R. Spellman, Spellman Environmental Consultants, Norfolk, Virginia, USA and **Kathern D. Welsh**

Safe Work Practices for Water and Wastewater Treatment Operations, 3rd edition is an updated version of an industry best seller that covers the safety requirements, concerns and regulations mandated for safe plant operation. Although the book targets water and wastewater operations it is quite suitable for most industrial operations. New OSHA requirements and other regulatory requirements have been added to this edition. Moreover, a more illustrative format is used throughout the text for easy understanding.

CRC Press
Market: Water Science & Engineering
December 2017: 254 x 178: 356pp
Hb: 978-0-815-36852-6: **£100.00**
Prev. Ed Hb: 978-1-138-47485-7
* For **full contents** and more information, visit: **www.crcpress.com/9780815368526**

The Biopolitics of Water

Governance, Scarcity and Populations



Sofie Hellberg, University of Gothenburg, Sweden

Series: Earthscan Studies in Water Resource Management

This volume provides a biopolitical perspective on water governance and its effects. Biopolitics is concerned with the administering and regulating the conditions of life at the aggregated level of populations. It explores how such governance differentiates between different populations as well as what it means for people's lifestyles and the way they understand themselves as well as their moral responsibilities. It investigates the global water agenda as water for basic needs, and provides different examples of hydromentalities around the world, as well as one detailed case in South Africa.

Routledge
Market: Environment / Geography / Politics
March 2018: 234x156: 216pp
Hb: 978-1-138-74075-4: **£115.00**
eBook: 978-1-315-18325-1
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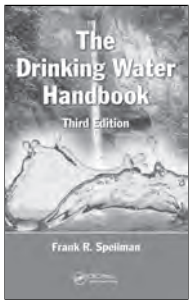
3rd Edition • NEW EDITION

The Drinking Water Handbook, Third Edition



Frank R. Spellman, Spellman Environmental Consultants, Norfolk, Virginia, USA

This new edition of The Drinking Water Handbook is thoroughly revised and updated, and includes a comprehensive discussion of the Flint, Michigan lead contamination event, new coverage of contaminants in water, such as personal care products and pharmaceuticals (PCPP) and endocrine disruptors, and examines the security requirements for waterworks and ancillary procedures. It examines the process of producing drinking water— from sources of water, to the purification process, through distribution systems to the tap, and then to the actual use and reuse of water. It also reflects the latest advancements in treatment technologies and reviews new laws and regulations related to drinking water.

CRC Press
Market: Water Science and Engineering
October 2017: 235 x 156: 356pp
Hb: 978-1-138-06647-2: **£125.00**
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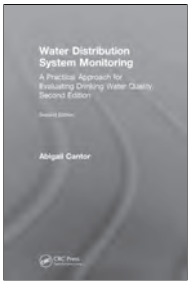
* For **full contents** and more information, visit: **www.crcpress.com/9781138066472**

2nd Edition • NEW EDITION

Water Distribution System Monitoring

A Practical Approach for Evaluating Drinking Water Quality, Second Edition



Abigail F. Cantor, Process Research Solutions, Madison, Wisconsin, USA

Updated throughout for this new edition, Water Distribution System Monitoring describes the latest water quality monitoring approaches, techniques, and equipment that will assist water utilities stay in compliance with the "Lead and Copper Rule" as well as address numerous other water quality issues. Water quality data are easily obtainable using the approaches presented, and are taken under standardized conditions representative of the complex interactions between water and pipes. The monitoring techniques provides a straightforward, economical approach to routine water quality monitoring in water distribution systems.

CRC Press
Market: Water Science and Engineering
January 2018: 235 x 156: 168pp
Hb: 978-0-815-37495-4: **£46.99**
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eBook: 978-1-315-16063-4
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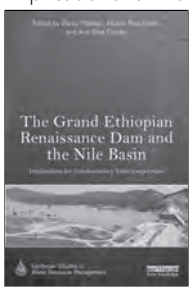
The Grand Ethiopian Renaissance Dam and the Nile Basin

Implications for Transboundary Water Cooperation



Edited by **Zeray Yihdego**, **Alistair Rieu-Clarke** and **Ana Elisa Cascão**

Series: Earthscan Studies in Water Resource Management

The Grand Ethiopian Renaissance Dam (GERD) will not only be Africa's largest dam, but it is also essential for future cooperation and development between neighbouring states in the Nile river basin and East African region. This book, after setting out basin-level legal and policy successes and failures of managing and sharing Nile waters, articulates the opportunities and challenges surrounding the GERD through multiple disciplinary lenses, including law, political science and hydrology to transboundary water resource management between Egypt, Ethiopia and Sudan.

Routledge
Market: Environment, Law, Africa Studies
October 2017: 234x156: 224pp
Hb: 978-1-138-06489-8: **£105.00**
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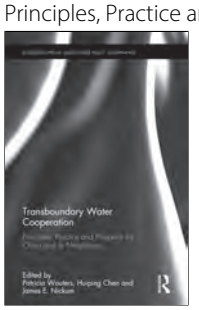
Transboundary Water Cooperation

Principles, Practice and Prospects for China and Its Neighbours



Edited by **Patricia Wouters**, Xiamen University, China, **Huiping Chen**, Xiamen University, China and **James E. Nickum**, International Water Resources Association, Japan

Series: Routledge Special Issues on Water Policy and Governance

China and its neighbours face a series of water security issues, in which international law plays a vital role. Paramount to both policymakers and researchers in the field of water law, the current status of transboundary water cooperation schemes and how these operate in China is of global significance. Grounded in international experience, this comprehensive volume provides readers with an up-to-date overview of current international transboundary water resource sharing policies and practices, including detailed case studies at both domestic and international levels. The articles in this book were originally published in the journal *Water International*.

Routledge
Market: Environment / Water / Mining
November 2017: 246x174: 378pp
Hb: 978-1-138-28883-6: **£115.00**
* For **full contents** and more information, visit: **www.routledge.com/9781138288836**

Advances in Groundwater Governance

Edited by **Karen G. Villholth**, Geological Survey of Denmark and Greenland, Copenhagen, Denmark, **Elena Lopez-Gunn**, **Kirstin Conti**, IGRAC, Delft, The Netherlands, **Alberto Garrido** and **Jac Van Der Gun**

This book presents the complexity and many dimensions of groundwater governance in 28 chapters, written by a global team of leading experts. The first part of the book defines groundwater governance, exploring its emergence and evolution, framing it through a socio-ecological lens and describing groundwater policy and planning approaches. The second part discusses key aspects of groundwater governance, including leadership, political support, participation, cooperation, and conflict resolution. The third examines the linkages between groundwater and other resources/sectors and the fourth part presents eight case studies that illustrate current practices in groundwater governance worldwide.

CRC Press
Market: Water Science
December 2017: 246x174: 594pp
Hb: 978-1-138-02980-4: **£140.00**
eBook: 978-1-315-21002-5
* For **full contents** and more information, visit: **www.crcpress.com/9781138029804**

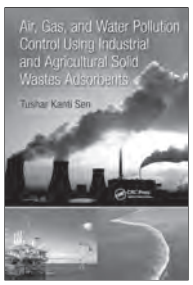
Drinking Water Contaminants Guidebook

Joseph Cotruvo, Joseph Cotruvo & Associates LLC, Washington, D.C., USA

This book compiles the essential information on the principal chemical, microbial, and radionuclide characteristics of water contaminants. It provides authoritative information, however, the content is presented in terms that would be understandable to non-experts as well as to professionals. It includes data on traditional and regulated contaminants as well as chemicals of emerging concern, as well as algal toxins and PFOS/PFOA. Each contaminant dossier includes the physical and chemical properties, toxicity, analytical methodology, water treatment technology, US, EU, and other regulatory guidance, including the World Health Organization, Australian, and Canadian guidelines.

CRC Press
Market: Water Science & Engineering
June 2018: 235 x 156: 288pp
Hb: 978-0-815-36305-7: **£92.00**
eBook: 978-1-351-11047-1
* For **full contents** and more information, visit: **www.crcpress.com/9780815363057**

Air, Gas, and Water Pollution Control Using Industrial and Agricultural Solid Wastes Adsorbents



Edited by **Tushar Kanti Sen**

Present book aims to address various industrial and agricultural solid waste based adsorbents and their applications in the broad field of separation/purification of air, gaseous and water pollutants. The synthesis, characteristics of industrial/agricultural solid waste based adsorbents and their adsorptive effectiveness under various physicochemical process parameters are discussed in this comprehensive guide.

CRC Press
Market: Environmental Engineering
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Hb: 978-1-138-19673-5: **£155.00**
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Fluoride Removal from Groundwater by Adsorption Technology

Abdulai Salifu, UNESCO-IHE Institute for Water Education, Delft, The Netherlands

High fluoride concentration in groundwater has made many drilled boreholes unusable for drinking in parts of Northern region of Ghana. Treatment of the groundwater by adsorption is also hampered by the lack of suitable locally available adsorbents. This thesis highlights through principal component analysis and saturation indices calculations that predominant mechanisms controlling the fluoride enrichment probably include calcite precipitation and Na/Ca exchange processes, which deplete Ca from the groundwater, and promote the dissolution of fluorite. Additionally, aluminium oxide coated media is capable of reducing fluoride in water, suggesting it is a promising defluoridation adsorbent.

CRC Press
Market: Water Science, Technology and Engineering
November 2017: 240 x 170: 276pp
Pb: 978-0-815-39207-1: **£69.99**
eBook: 978-1-351-19999-5
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Arsenic in Groundwater

Poisoning and Risk Assessment

M. Manzurul Hassan, University of Durham, UK

Arsenic-contaminated groundwater has created one of the world's largest environmental health crises. This book addresses the arsenic issue within a scientific and social science framework, with the context set by environmental and legal considerations. The text explores the methodological issues of spatial, quantitative, and qualitative enquiries on arsenic poisoning, for instance, using GIS to investigate the distribution of arsenic-laced water in space-time to uncover the pattern of variations over scales from meters to kilometers. The authors also include spatial risk maps that indicate the possible long-term strategies of mitigation.

CRC Press
Market: Toxicology
March 2018: 254 x 178: 376pp
Hb: 978-1-439-83927-0: **£100.00**
* For **full contents** and more information, visit: **www.crcpress.com/9781439839270**

Fundamentals of Environmental Site Assessment and Remediation

Edited by **Yue Rong**, California Regional Water Quality Control Board, Los Angeles, CA, U.S.A.

The book will examine all aspects of environmental site assessment and remediation and outline the interdisciplinary skills needed to work in the field. It provides a comprehensive overview for students, environmental professionals, and real estate developers, and includes the latest environmental regulations, environmental site assessment and remediation practices, and industry standards. It examines pollution sources and the related impacts on drinking water supplies, the associated health risks, and how to protect water resources. The monitoring of surface water, groundwater, and soil is explained, as well as vapor intrusion. It will include several practical case studies throughout.

CRC Press
Market: Engineering - Environmental
June 2018: 254 x 178: 350pp
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TEXTBOOK • READER

Groundwater Modeling

Theory and Applications using Python

Mark Bakker, TU Delft, Faculty of Civil Engineering and Geosciences, Delft, The Netherlands and **Vincent Post**, Flinders University, School of the Environment, Adelaide, Australia

This book covers the theoretical aspects of mathematical groundwater models. It is aimed at advanced (under)graduate university students, as well as practicing hydrogeologists. The focus is on the fundamentals of the quantitative methods used to simulate, understand, and investigate groundwater systems. Uniquely, it provides hands-on exercises based on the popular open-source programming language Python. The book's structure is such that the theoretical treatments of the modeling methods are exemplified by short pieces of computer code that demonstrate the implementation of the theory, making the book highly suitable for university courses on the fundamental aspects of groundwater modeling.

CRC Press
Market: Water Sciences / Hydrology
June 2018: 246x174: 400pp
Pb: 978-1-138-02939-2: **£53.99**
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Hydraulics for Environmental Engineers

Phoolendra Mishra and **Andy Lee**, Los Angeles County Sanitation District, California, USA

Series: Fundamentals of Environmental Engineering

This book will cover topics that are not typically covered in conventional fluid mechanics books taught in civil engineering programs. It will be a hydraulics/fluid mechanics book tailor-made for environmental engineering students and professionals, and will include specialized topics such as air flow, mixing (liquid-liquid, air-liquid), particle transport, tracer study, fluid mechanics in reactors, and more. It will also include end-of-chapter questions and a solutions manual, and will present the information in a concise way, designed to be taught in a one-semester course.

CRC Press
Market: Water Science & Engineering
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Low Head Hydropower for Local Energy Solutions

Pradeep Narrain, UNESCO-IHE Institute for Water Education, Delft, The Netherlands

Small hydropower is increasingly important on a global level, and the possibility of local power generation could considerably improve living conditions in rural areas in developing countries. This thesis presents a numerical modelling approach to improve the design of low-cost machines like water wheels for increased hydraulic efficiency. Using a Computational Fluid Dynamics (CFD) approach, it explores effects of blade geometry, optimal wheel-width to channel-width ratio and channel bed conditions upstream and downstream to improve performance. With a power rating in the low kilowatt range, low-head hydropower machines seem to have a clear potential for small-scale energy generation.

CRC Press
Market: Water Science, Technology and Engineering
November 2017: 240 x 170: 222pp
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Membrane Transport

Fundamentals and Applications

Reza Foudazi, New Mexico State University, Las Cruces, USA

Series: Energy and the Environment

Synthetic membranes are widely used for water purification and wastewater treatment. Development of membranes for water treatment has provided a method to produce potable water with much lower energy than thermal distillation. This book will describe the basic principles that govern transport across both natural and synthetic membranes in water treatment. The mass and fluid transport equations will be discussed and utilized to predict the passive transport in biological membranes and performance of dialysis, reverse/forward osmosis, microfiltration, ultrafiltration, and nanofiltration membranes. Membrane reactors and biorectors will also be examined.

CRC Press
Market: Water Science & Engineering
December 2017: 235 x 156: 408pp
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Renewable Energy for Desalination and Advanced Water Treatment

Fundamentals and Applications

Hiren D. Raval, Central Salt and Marine Chemicals Research Institute, Bhavnagar, India, **Leila Karimi**, New Mexico State University, Las Cruces, USA and **Abbas Ghassemi**, New Mexico State University, Las Cruces, USA

Series: Energy and the Environment

Water treatment and desalination facilities use a tremendous amount of energy, and often release associated pollution when using conventional fossil-fuel power. This book will present the various types of technologies that could power treatment and desalination plants, such as solar, wind, geothermal, and wave power. It will describe the current status and future trends of each method, as well as membrane and thermal technologies. It will address the economic considerations of renewable energy used for desalination, and the related infrastructure capitalization, and will also offer the best potential power generation options for different regions, including islands and remote locations.

CRC Press
Market: Water Science & Engineering
July 2018: 235 x 156: 208pp
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Two- and Three-Dimensional Flow of Groundwater

Florimond De Smedt, Dept. Hydrology and Hydraulic Engineering, Vrije Universiteit Brussels, Belgium and **Wouter Zijl**, Dept. of Hydrology and Hydraulic Engineering, Vrije Universiteit Brussels, Belgium

This monograph is a practical guide to groundwater flow theory intended to serve students and practitioners by bridging the gap between basic hydrogeology and groundwater modeling. It synthesizes the mathematics of groundwater flow and provides information in an easily-accessible format for practicing groundwater professionals, consultants, and students that intend to become skillful and competent groundwater flow modelers.

CRC Press
Market: Water Science & Engineering
October 2017: 216 x 140: 65pp
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Urban Pluvial and Coincidental Flooding

Edited by **Čedo Maksimovic**, Department of Civil and Environmental Engineering, Imperial College London, London, UK and **Adrian Saul**, Department of Civil and Structural Engineering, The University of Sheffield, Sheffield, UK

Series: Urban Water Series

Pluvial flooding is flooding resulting from rainfall-generated overland flow, before the runoff enters any watercourse or sewer. Urban pluvial flooding arises from high intensity extreme rainfall events. This volume deals with the many aspects involved with pluvial and coincidental flooding, investigating causes and consequences. Various techniques to anticipate and forecast floods are presented, to help reduce their impact and limit consequences, both in the short and long term. Case studies and instructions for training and education are also included. The chapters were contributed by experts on the subject, working on flood management and flood impact reduction in many countries.

CRC Press
Market: Civil Engineering / Geography
August 2018: 246x174: 416pp
Hb: 978-0-415-62158-8: **£92.00**
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Wastewater Treatment and Reuse Theory and Design Examples, Volume 2:

Post-Treatment, Reuse, and Disposal

Syed R. Qasim, The University of Texas at Arlington, USA and **Guang Zhu**, CP&Y, Inc., Fort Worth, Texas, USA

This book will present the theory involved in wastewater treatment processes, define the important design parameters involved, and provide typical values of these parameters for ready reference; and also provide numerical applications and step-by-step calculation procedures in solved examples. These examples and solutions will help enhance the readers' comprehension and deeper understanding of the basic concepts, and can be applied by plant designers to design various components of the treatment facilities. It will also examine the actual calculation steps in numerical examples, focusing on practical application of theory and principles into process and water treatment facility design.

CRC Press
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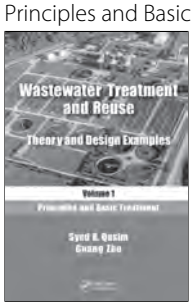
Wastewater Treatment and Reuse, Theory and Design Examples, Volume 1

Principles and Basic Treatment



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CRC Press
Market: Water Science & Engineering
December 2017: 254 x 178: 1135pp
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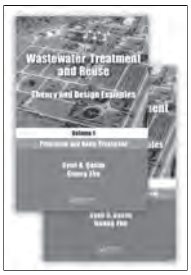
Wastewater Treatment and Reuse: Theory and Design Examples

(Two-Volume Set)



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CRC Press
Market: Water Science & Engineering
December 2017: 254 x 178: 1880pp
Hb: 978-1-498-76200-7: **£215.00**
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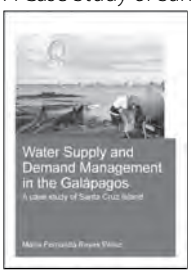
Water Supply and Demand Management in the Galápagos

A Case Study of Santa Cruz Island



Maria Fernanda Reyes Perez, UNESCO-IHE Institute for Water Education, Delft, The Netherlands

Water resources in tourist islands have been severely threatened, especially in the Galápagos Islands, where the increased local population has generated attractive income from the tourist services. This study investigates water supply and demand in Santa Cruz, the most populated island of Galápagos. The research encompasses a thorough assessment of the water supply crisis, as well as the quantification of water demand from different categories (domestic, tourist, restaurants and laundries) through surveys, in the absence of water metering. The results yield a wide range of water consumption, questioning the current assumption of water scarcity.

CRC Press
Market: Water Science, Technology and Engineering
November 2017: 240 x 170: 244pp
Pb: 978-0-815-37247-9: **£77.00**
eBook: 978-1-351-24527-2
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