

ROUTLEDGE • CRC PRESS

Environmental Sciences,  
Sustainability and Engineering  
2019 - 2021



# Welcome

Welcome to our catalogue where we are pleased to present a selection of key and forthcoming titles in Environmental Sciences, Sustainability and Engineering, publishing between 2019 and 2021.

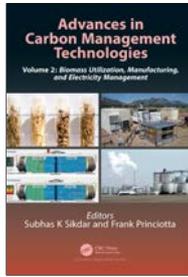
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# Contents

Clean Technologies .....	2
Climate Change .....	4
Energy & Fuels .....	12
Environmental Engineering .....	21
Environmental Law .....	27
Environmental Management .....	32
Environmental Policy .....	35
Environmental Politics .....	39
Environmental Studies .....	42
Forestry .....	56
Renewable Energy .....	59
Sustainable Development .....	64
Water Sciences .....	68
Index .....	74

## Advances in Carbon Management Technologies

Biomass Utilization, Manufacturing, and Electricity Management, Volume 2



Edited by **Subhas K. Sikdar** and **Frank Princiotto**

UN climate models predict global average temperature increases due to cumulative rise of atmospheric greenhouse gas emissions. This will have serious implications on life on Earth. Scientists have been engaged in research for reducing such emissions from current technologies as well as for developing low carbon and carbon neutral energy technologies. This book was motivated by the desire to compile recent advances in carbon management to examine promises and limitations of emissions measurements, energy efficiencies, carbon capture and sequestration, biomass waste utilization, electric power generation, energy storage, and carbon neutral power from nuclear, hydro, solar and wind.

CRC Press

**Market:** Energy & Clean Technology

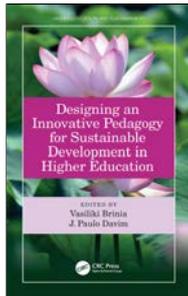
February 2021: 254 x 178: 390pp

Hb: 978-0-367-52049-6: **£105.00**

eBook: 978-1-003-05615-7

\* For full contents and more information, visit: [www.crcpress.com/9780367520496](http://www.crcpress.com/9780367520496)

## Designing an Innovative Pedagogy for Sustainable Development in Higher Education



Edited by **Vasiliki Brinia**, Athens University of Economics and Business, Greece and **J. Paulo Davim**, Professor, Department of Mechanical Engineering, University of Aveiro, Portugal

*Series: Higher Education and Sustainability*

The aim of this book is to develop a "green pedagogy" and a mindset in Higher Education by using approaches based on innovative design thinking, arts-based practices, digital transformation, and entrepreneurship for sustainable development. Design thinking in higher education will lead students through an artful and experimental way of thinking and in doing so, will make them much more creative and innovative, as well as more responsible by allowing them to take

ownership of the creation process.

CRC Press

**Market:** Engineering - Industrial & Manufacturing

April 2020: 235 x 156: 154pp

Hb: 978-0-367-18225-0: **£99.99**

eBook: 978-0-429-06019-9

\* For full contents and more information, visit: [www.crcpress.com/9780367182250](http://www.crcpress.com/9780367182250)

## Emerging Green Technologies



**Matthew N. O. Sadiku**, Prairie View A&M University, Texas, USA

This book provides researchers, students, and professionals a comprehensive introduction, applications, benefits, and challenges for fifteen emerging green technologies. It presents the impact of these cutting-edge technologies on our global economy and its future. The book will help a beginner to have an introductory knowledge about these emerging technologies. The main objective of the author is to provide a concise treatment that is easily digestible. It is a must-read for graduate students or scholars considering researching green technologies. It can also serve as a valuable resource for those business professionals who seek ways to green their processes.

CRC Press

**Market:** Electrical Engineering

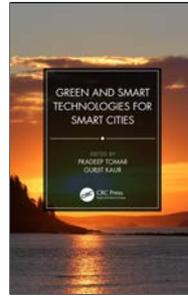
March 2020: 235 x 156: 208pp

Hb: 978-0-367-36161-7: **£74.99**

eBook: 978-0-429-34421-3

\* For full contents and more information, visit: [www.crcpress.com/9780367361617](http://www.crcpress.com/9780367361617)

## Green and Smart Technologies for Smart Cities



Edited by **Pradeep Tomar**, Department of Computer Science and Engineering, School of Information and Communication Technology, Gautam Buddha University, Greater Noida, U.P., India and **Gurjit Kaur**, Dept of Electronics and Communication Engineering, Delhi Technological University, Delhi.

The objective of this book to explore all the green communication technologies, green computing technologies, green smart buildings, green smart lighting, green smart mobility management, fuel efficient transportation, paperless offices, energy efficiency measures, waste recycling and so forth for designing green smart cities.

CRC Press

**Market:** Energy and Clean Technology

December 2019: 235 x 156: 379pp

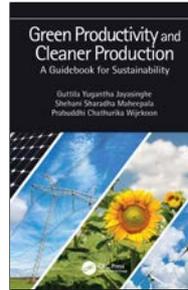
Hb: 978-1-138-31809-0: **£130.00**

eBook: 978-0-429-45483-7

\* For full contents and more information, visit: [www.crcpress.com/9781138318090](http://www.crcpress.com/9781138318090)

## Green Productivity and Cleaner Production

A Guidebook for Sustainability



Edited by **Guttula Yugantha Jayasinghe**, Shehani Sharadha Maheepala, Prabuddhi Chaturika Wijekoon

Green Productivity and Cleaner Production: A Guidebook for Sustainability focuses on green production processes that could help better achieve global sustainability. It aids readers in realizing the issues with current conventional productivity initiatives and examines the newest methods. Also, it presents numerous real-world applications techniques, which allows users the ability to apply the most appropriate solutions for their situations. Further, it explains measures to achieve green productivity and cleaner production to help to maintain high quality, sustainable production chains while simultaneously conserving natural resources and reducing waste.

CRC Press

**Market:** Environmental Engineering

September 2020: 235 x 156: 152pp

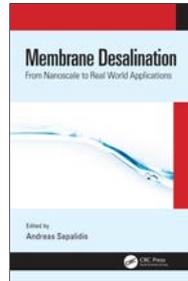
Hb: 978-0-367-53509-4: **£74.99**

eBook: 978-1-003-08226-2

\* For full contents and more information, visit: [www.crcpress.com/9780367535094](http://www.crcpress.com/9780367535094)

## Membrane Desalination

From Nanoscale to Real World Applications



Edited by **Andreas Sapalidis**, National Centre for Scientific Research "Demokritos", Athens, Greece

This book aims to provide details about membrane desalination processes, starting from basic concepts leading to real world implementation. Chapters cover novel research topics such as biomimetic and nanocomposite membranes, nanostructured fillers for mixed matrix membranes, advanced characterization techniques and molecular modeling. Additionally, engineering and economical aspects of desalination as well as the exploitation of green energy sources are thoroughly presented. This books targets bridging the gap between the everyday research laboratory practices with practical application demands, so that the readers gain a global perspective of all desalination

challenges.

CRC Press

**Market:** Clean Technology

September 2020: 235 x 156: 400pp

Hb: 978-0-367-03079-7: **£150.00**

eBook: 978-0-429-02025-4

\* For full contents and more information, visit: [www.crcpress.com/9780367030797](http://www.crcpress.com/9780367030797)

## Sustainability of Biomass through Bio-based Chemistry

Edited by **Valentin I Popa**

*Series: Sustainability: Contributions through Science and Technology*

The process of photosynthesis is a potential source of energy and bioproducts. Renewable sources of polymeric materials offer an answer to maintaining sustainable development of economically and ecologically attractive technology. The innovations in the development of materials from biopolymers, preservation of fossil-based raw materials, complete biological degradability, reduction in the volume of garbage and compostability in the natural cycle, climate protection through reduction of carbon dioxide released, and the application possibilities of agricultural resources for the production of bio/green materials, are some of the reasons why such materials are attracting the public interest.

CRC Press

**Market:** Chemistry

March 2021: 234x156: 318pp

Hb: 978-0-367-36595-0: **£150.00**

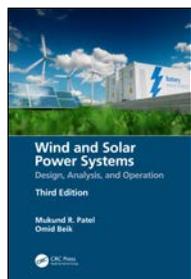
eBook: 978-0-429-34799-3

\* For full contents and more information, visit: [www.crcpress.com/9780367365950](http://www.crcpress.com/9780367365950)

3rd Edition

## Wind and Solar Power Systems

Design, Analysis, and Operation



**Mukund R. Patel**, U.S. Merchant Marine Academy, Kings Point, New York, USA and **Omid Beik**, Enercs Inc., Canada

This book provides technological and socio-economic coverage of renewable energy. It discusses wind power technologies, solar photovoltaic technologies, large-scale energy storage technologies, and ancillary power systems. In this new edition, the book addresses advancements that have been made in renewable energy: solar systems have seen great transformation, the power electronics converters, their control and operation, have been improved, and multi-stage, multi-phase systems have been proposed and put into installation. The text has been revised to include up-to-date material, statistics, and current technology trends.

CRC Press

**Market:** Mechanical Engineering - Energy & Clean Technology

March 2021: 234x156: 376pp

Hb: 978-0-367-47693-9: **£130.00**

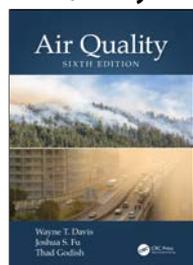
eBook: 978-1-003-04295-2

Prev. Ed Hb: 978-0-849-31570-1

\* For full contents and more information, visit: [www.crcpress.com/9780367476939](http://www.crcpress.com/9780367476939)



6th Edition

**Air Quality**

Wayne T. Davis, University of Tennessee, Knoxville, USA and  
Joshua S. Fu, University of Knoxville, Tennessee, USA

The Air Quality field changes rapidly as new regulations are developed, particularly driven by climate change. This updated edition provides the latest information, including the newest technologies, regulations, and air quality management approaches. The areas on climate change are updated substantially. Through simple and precise language, scientific terms are explained in a holistic sense, and beginners and environmental practitioners alike will consider this book a trustworthy companion. The sixth edition includes additional information related to global air quality to better assess

worldwide air quality conditions.

CRC Press

**Market:** Environmental Engineering

February 2021: 254 x 178: 414pp

Hb: 978-0-367-86092-9: **£100.00**

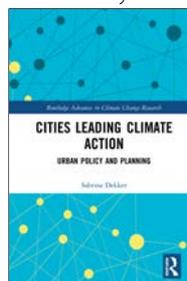
eBook: 978-1-003-03259-5

Prev. Ed Hb: 978-1-466-58444-0

\* For full contents and more information, visit: [www.crcpress.com/9780367860929](http://www.crcpress.com/9780367860929)

**Cities Leading Climate Action**

Urban Policy and Planning



Sabrina Dekker

*Series: Routledge Advances in Climate Change Research*

Drawing on in-depth case study research on Vancouver, Portland, Glasgow and Dublin, Dekker examines the policy development processes employed by urban policy makers to respond to climate change, looking specifically at the utilisation of collaborative planning. Emerging from the case studies are lessons for local governments in relation to the role of organisational structure in supporting climate leadership; the importance of relationships building and narratives for supporting ownership of the responses to climate change by stakeholders; and the need for public engagement with technological solutions.

Routledge

**Market:** Climate Change/Environmental Policy/City and Urban Planning

June 2020: 234x156: 200pp

Hb: 978-1-138-48590-7: **£120.00**

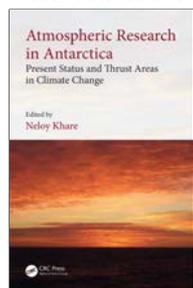
Pb: 978-0-367-51886-8: **£36.99**

eBook: 978-1-351-04780-7

\* For full contents and more information, visit: [www.routledge.com/9780367518868](http://www.routledge.com/9780367518868)

**Atmospheric Research in Antarctica**

Present Status and Thrust Areas in Climate Change



Edited by Nelay Khare, Ministry of Earth Sciences,  
Government of India, New Delhi, INDIA

The book represents panoramic view of the developments in the field of Antarctic Atmospheric Sciences and Meteorology broadly covering Geomagnetism and Aeronomy, Middle Atmospheric Studies and Global and Climate Change Studies through various research studies.

CRC Press

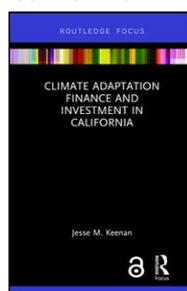
**Market:** Environmental Sciences

December 2019: 235 x 156: 288pp

Hb: 978-0-367-40880-0: **£120.00**

eBook: 978-0-367-80965-2

\* For full contents and more information, visit: [www.crcpress.com/9780367408800](http://www.crcpress.com/9780367408800)

**Climate Adaptation Finance and Investment in California**

Jesse M. Keenan

This book serves as a guide for local governments and private enterprises as they navigate the uncharted waters of investing in climate change adaptation and resilience. This book serves not only as a resource guide for identifying potential funding sources but also as a roadmap for asset management and public finance processes. While the main focus of this work is on the State of California, this book offers broader insights for how states, local governments and private enterprises can take those critical first steps in investing in society's collective adaptation to climate change.

Routledge

June 2020: 216x138: 172pp

Hb: 978-0-367-02607-3: **£120.00**

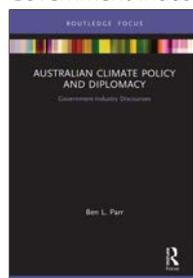
Pb: 978-0-367-60667-1: **£17.99**

eBook: 978-0-429-39875-9

\* For full contents and more information, visit: [www.routledge.com/9780367606671](http://www.routledge.com/9780367606671)

**Australian Climate Policy and Diplomacy**

Government-Industry Discourses



Ben L. Parr

*Series: Routledge Focus on Environment and Sustainability*

This book delivers an up-to-date explanation for Australia's weak response to climate change. It contends the dominant 'greenhouse mafia' theory, which argues that Australia's weak policy response to climate change is the result of a menacing domestic fossil fuel lobby. Instead, this book argues that the shared government-industry discourse about protecting Australia's industrial competitiveness has had a more decisive influence in shaping and legitimising Australian climate policy than the direct lobbying tactics of the fossil fuel industry.

Routledge

**Market:** Climate Change

December 2019: 216x138: 138pp

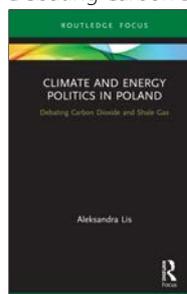
Hb: 978-1-138-32382-7: **£44.99**

eBook: 978-0-429-45119-5

\* For full contents and more information, visit: [www.routledge.com/9781138323827](http://www.routledge.com/9781138323827)

**Climate and Energy Politics in Poland**

Debating Carbon Dioxide and Shale Gas



Aleksandra Lis

*Series: Routledge Focus on Environment and Sustainability*

*Climate and Energy Politics in Poland: Debating Carbon Dioxide and Shale Gas* presents a new, object-oriented perspective on the challenge faced by the largest post-socialist EU Member State from Central and Eastern Europe (CEE), Poland, to produce knowledge about its energy system in the context of climate change.

This book will be of great interest to students and scholars of energy and resource politics, climate change, EU environmental policy and CEE studies more broadly.

Routledge

**Market:** Climate Change/Energy Studies

March 2020: 216x138: 132pp

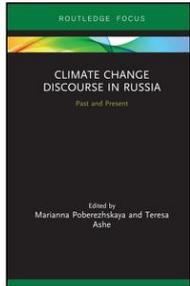
Hb: 978-0-367-19549-6: **£44.99**

eBook: 978-0-429-20309-1

\* For full contents and more information, visit: [www.routledge.com/9780367195496](http://www.routledge.com/9780367195496)

## Climate Change Discourse in Russia

Past and Present



Edited by **Marianna Poberezhskaya** and **Teresa Ashe**  
*Series: Routledge Focus on Environment and Sustainability*  
 This book contributes to the study of climate change as a cultural idea, by developing the extensive Anglophone literature on environmental science, politics and policy pertaining to climate change in the West to consider how Russian discourses of climate change have developed. This book will be of great interest to students and scholars of Russian environmental policy and politics, climate change discourses, environmental communication and environment and sustainability in general.

Routledge

**Market:** Climate Change / Russian Environmental Politics

March 2020: 216x138: 132pp

Hb: 978-1-138-49320-9: **£46.99**

Pb: 978-0-367-51167-8: **£16.99**

eBook: 978-1-351-02866-0

\* For full contents and more information, visit: [www.routledge.com/9780367511678](http://www.routledge.com/9780367511678)

## Climate Change Impacts on Coastal Soil and Water Management



Zied Haj-Amor and Salem Bouri

Climate Change Impacts on Coastal Soil and Water Management discusses the latest approaches for monitoring soil and water degradation in coastal regions under current climate conditions and as well as potential further changes in the future. It presents an overview of climate change impacts on soil and water resources and summarizes the adaptation of practical options and strategies to minimize the potential risks, such as land degradation, seawater intrusion, droughts, ocean acidification, etc.

CRC Press

**Market:** Environmental Engineering

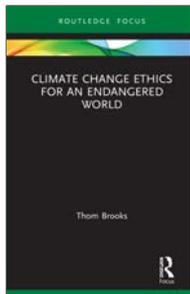
February 2020: 235 x 156: 210pp

Hb: 978-0-367-40553-3: **£89.99**

eBook: 978-0-429-35666-7

\* For full contents and more information, visit: [www.crcpress.com/9780367405533](http://www.crcpress.com/9780367405533)

## Climate Change Ethics for an Endangered World



Thom Brooks

*Series: Routledge Focus on Environment and Sustainability*  
 In this provocative new book, these popular proposals for ending or overcoming the threat of climate change are shown to offer no easy escape and each rest on an important mistake. Thom Brooks argues that a future environmental catastrophe is an event we can only delay or endure, but not avoid. This raises new ethical questions about how we should think about climate change. How should we reconceive sustainability without a status quo? Why is action more urgent and necessary than previously thought? What can we do to motivate and inspire hope? Many have misunderstood the kind of problem that climate change presents – as well as the daunting challenges

we must face and overcome.

Routledge

**Market:** climate change/environmental justice

October 2020: 216x138: 116pp

Hb: 978-0-367-52431-9: **£44.99**

eBook: 978-1-003-05795-6

\* For full contents and more information, visit: [www.routledge.com/9780367524319](http://www.routledge.com/9780367524319)

## Climate Change in the Global Workplace

Labour, Adaptation and Resistance

Edited by **Nithya Natarajan** and **Laurie Parsons**

*Series: Routledge Advances in Climate Change Research*

This book offers a timely exploration of how climate change manifests in the global workplace. It draws together accounts of workers, their work and the politics of resistance in order to enable us to better understand how the impacts of climate change are structured by the economic and social processes of labour. It shows how both the impacts of and adaptations to a changing climate emerge through the prism of working lives. Drawing together scholars from anthropology, political economy, geography and development studies, this book will be of great interest to students and scholars of climate change adaptation, labour studies and environmental justice.

Routledge

April 2021: 234x156: 224pp

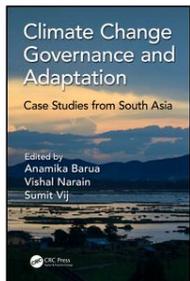
Hb: 978-0-367-42232-5: **£120.00**

eBook: 978-0-367-82290-3

\* For full contents and more information, visit: [www.routledge.com/9780367422325](http://www.routledge.com/9780367422325)

## Climate Change Governance and Adaptation

Case Studies from South Asia



Edited by **Anamika Barua**, **Vishal Narain** and **Sumit Vij**  
 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 strategy.

CRC Press

June 2020: 234x156: 204pp

Hb: 978-1-138-05450-9: **£120.00**

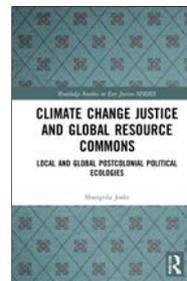
Pb: 978-0-367-57112-2: **£41.99**

eBook: 978-1-315-16670-4

\* For full contents and more information, visit: [www.crcpress.com/9780367571122](http://www.crcpress.com/9780367571122)

## Climate Change Justice and Global Resource Commons

Local and Global Postcolonial Political Ecologies



Shangrila Joshi

*Series: Routledge Studies in Environmental Justice*

This book examines the multiple scales at which the inequities of climate change are borne out. Shangrila Joshi engages in a multi-scalar analysis of the myriad ways in which various resource commons are implicated in climate governance, with a consistent emphasis throughout on the justice implications for disenfranchised communities. It focuses on an analysis of North-South inequities in responsibility, vulnerability, and capability, as evidenced in global climate treaty negotiations from Rio to Paris. This book will be of great interest to students and scholars of environmental justice, climate justice, climate policy, political ecology, and South Asian studies.

Routledge

**Market:** Climate Justice / Political Ecology

April 2021: 234x156: 240pp

Hb: 978-0-367-36455-7: **£120.00**

eBook: 978-0-429-34623-1

\* For full contents and more information, visit: [www.routledge.com/9780367364557](http://www.routledge.com/9780367364557)

## Climate Change Solutions and Environmental Migration

The Injustice of Maladaptation and the Gendered 'Silent Offset' Economy

Anna Ginty

*Series: Routledge Studies in Environmental Migration, Displacement and Resettlement*

This book lifts the taboo on maladaptation, a different driver of environmentally induced migration, shining a light on the negative consequences arising from the solutions to climate change, adaptation and mitigation policies. This volume will be of great interest to students, scholars and practitioners of climate change, environmental policy, environmental migration and displacement, development studies, I/NGOs and civil society actors and activists more broadly.

Routledge

**Market:** Climate Change/Migration

April 2021: 234x156: 216pp

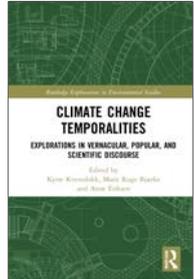
Hb: 978-0-367-49058-4: **£120.00**

eBook: 978-1-003-04427-7

\* For full contents and more information, visit: [www.routledge.com/9780367490584](http://www.routledge.com/9780367490584)

## Climate Change Temporalities

Explorations in Vernacular, Popular, and Scientific Discourse



Edited by Kyrre Kverndokk, Marit Ruge Bjærke and Anne Eriksen

*Series: Routledge Explorations in Environmental Studies*

This book explores how the relationship between the past, present and future is articulated in different climate change discourses. The contributors address climate change temporality by exploring the multiple temporalities present in texts on climate change from a range of different genres. The material studied ranges from scientific articles to newspaper debates and self-presentations from climate activists. *Climate Change Temporalities* will be of great interest to students and scholars of humanistic climate change research, environmental humanities, studies of temporality and historicity, cultural studies,

cultural history and popular culture.

Routledge

**Market:** Environment / Climate Change

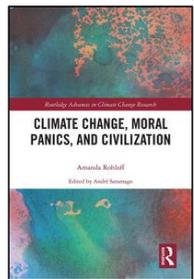
March 2021: 234x156: 208pp

Hb: 978-0-367-47960-2: **£120.00**

eBook: 978-1-003-03741-5

\* For full contents and more information, visit: [www.routledge.com/9780367479602](http://www.routledge.com/9780367479602)

## Climate Change, Moral Panics and Civilization



Amanda Rohloff, Lecturer, School of Social Sciences, Brunel University, UK. and André Saramago

*Series: Routledge Advances in Climate Change Research*

In recent years, interest in climate change within sociology and media studies has rapidly increased and yet there is still relatively little published material in the field that seeks to understand the development of climate change as a perceived social problem. This book contributes to filling this gap by linking the study of the historical development of social perceptions about 'nature' and climate change with the figurational sociology of Norbert Elias and the study of moral panics. This highly innovative should be of interest to students and researchers working in the fields of climate change, environmental sociology and the relationship

between humans and the environment.

Routledge

**Market:** Environment, Sustainability

March 2020: 234x156: 200pp

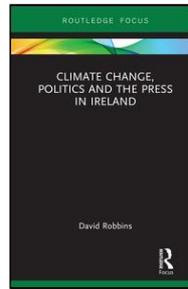
Hb: 978-0-415-62722-1: **£120.00**

Pb: 978-0-367-50770-1: **£36.99**

eBook: 978-0-203-56855-2

\* For full contents and more information, visit: [www.routledge.com/9780367507701](http://www.routledge.com/9780367507701)

## Climate Change, Politics and the Press in Ireland



David Robbins

With a view to advancing our understanding of the "frame competition" around climate change, and to presenting the perspectives of journalists regarding climate change as a journalistic topic, this book presents an in-depth case history of media coverage of climate change in Ireland. The main objective of this book is to advance our understanding of the contest to establish the dominant framing of climate change in the media discourse.

Routledge

June 2020: 216x138: 148pp

Hb: 978-1-138-32387-2: **£46.99**

Pb: 978-0-367-60668-8: **£17.99**

eBook: 978-0-429-45115-7

\* For full contents and more information, visit: [www.routledge.com/9780367606688](http://www.routledge.com/9780367606688)

## Climate Diplomacy and Emerging Economies

India as a Case Study

Dhanasree Jayaram

*Series: Routledge Focus on Environment and Sustainability*

*Climate Diplomacy and Emerging Economies* analyses the role of the BASIC countries – Brazil, South Asia, India and China - in the international climate order.

Digging deeper into the case study of India, Jayaram studies the shifts in its climate diplomacy by looking into the ways in which climate change is framed and analyses the variations in perceptions of the causes of climate change, the solutions to it, the motivations for setting climate action goals, and the methods to achieve the goals.

This book will be of great interest to students and scholars of climate change, environmental policy and politics and IR more broadly.

Routledge

**Market:** Climate Change/Environmental Policy

March 2021: 216x138: 136pp

Hb: 978-0-367-63402-5: **£44.99**

eBook: 978-1-003-11907-4

\* For full contents and more information, visit: [www.routledge.com/9780367634025](http://www.routledge.com/9780367634025)

## Climate Justice and Collective Action

Angela Kallhoff

*Series: Routledge Studies in Climate Justice*

This book develops a theory of climate cooperation designed for concerted action, which emphasises the role and function of collectives in achieving shared climate goals. In debates on climate change action, research focuses on three major goals: on mitigation, on adaptation and on transformation. Kallhoff provides an analysis of why concerted action on the goals has been difficult to realize and develops a theory of climate cooperation designed to overcome the existing roadblocks. This book will be of great interest to students and scholars of climate action, climate justice, environmental sociology and environmental philosophy and ethics more broadly.

Routledge

**Market:** climate change/climate justice/environmental ethics

April 2021: 234x156: 312pp

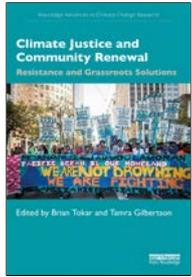
Hb: 978-0-367-75386-3: **£120.00**

eBook: 978-1-003-16232-2

\* For full contents and more information, visit: [www.routledge.com/9780367753863](http://www.routledge.com/9780367753863)

## Climate Justice and Community Renewal

Resistance and Grassroots Solutions



Edited by **Brian Tokar** and **Tamra Gilbertson**

Series: *Routledge Advances in Climate Change Research*

This book brings together the voices of people from five continents who live, work and research on the front lines of climate resistance and renewal. *Climate Justice and Community Renewal* uniquely highlights the accounts of people who are directly engaged in local climate struggles and community renewal efforts, including on-the-ground land defenders, community organizers, leaders of international campaigns, agroecologists, activist-scholars and many others. It will appeal to students, researchers, activists, and all who appreciate the need for a truly justice-centered response to escalating climate disruptions.

Routledge

Market: Climate Change / Environment & Society

April 2020: 234x156: 266pp

Hb: 978-0-367-22848-4: £120.00

Pb: 978-0-367-22849-1: £34.99

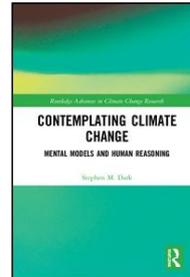
eBook: 978-0-429-27714-6

\* For full contents and more information, visit: [www.routledge.com/9780367228491](http://www.routledge.com/9780367228491)



## Contemplating Climate Change

Mental Models and Human Reasoning



Stephen M. Dark

Series: *Routledge Advances in Climate Change Research*

By exploring how we think about climate change and the disparate mental models we hold as a result, this book explores why humankind has thus far failed in its endeavours to solve the climate change problem. This book will be of great interest to students and scholars of climate change, environmental policy and environmental psychology.

Routledge

Market: Climate Change / Environmental Psychology

March 2020: 234x156: 256pp

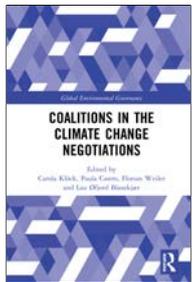
Hb: 978-1-138-60000-3: £120.00

Pb: 978-0-367-50769-5: £36.99

eBook: 978-0-429-47113-1

\* For full contents and more information, visit: [www.routledge.com/9780367507695](http://www.routledge.com/9780367507695)

## Coalitions in the Climate Change Negotiations



Edited by **Carola Klöck**, **Paula Castro**, **Florian Weiler**, Central European University, School of Public Policy, Vienna, Austria, and **Lau Øfjord Blaxekjær**

Series: *Global Environmental Governance*

This edited volume provides both a broad overview of cooperation patterns in the UNFCCC climate change negotiations and an in-depth analysis of specific coalitions and their relations. This book maps out and takes stock of patterns of cooperation in the climate change negotiations since their inception in 1995. It focuses on the evolution of coalitions over time and explores common themes and open questions in coalition research. By taking a broad approach to the study of coalitions in the climate change negotiations, this volume is an

essential reference source for researchers, students and negotiators with an interest in the dynamics of climate negotiations.

Routledge

Market: Climate Change / Environmental Policy

November 2020: 234x156: 240pp

Hb: 978-0-367-31321-0: £120.00

eBook: 978-0-429-31625-8

\* For full contents and more information, visit: [www.routledge.com/9780367313210](http://www.routledge.com/9780367313210)

## Contemporary Climate Change Debates

A Student Primer



Edited by **Mike Hulme**

*Contemporary Debates on Climate Change* is an innovative textbook which addresses a number of key issues in climate change studies. With a broad coverage of issues from the social sciences and humanities, including ethical, cultural, legal, social and political challenges, this book is essential reading for all students of climate change, as well as those studying environmental and sustainability more broadly.

Routledge

Market: Climate Change / Environmental Studies

December 2019: 246x174: 252pp

Hb: 978-1-138-33299-7: £120.00

Pb: 978-1-138-33302-4: £34.99

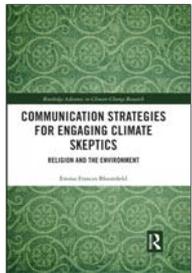
eBook: 978-0-429-44625-2

\* For full contents and more information, visit: [www.routledge.com/9781138333024](http://www.routledge.com/9781138333024)



## Communication Strategies for Engaging Climate Skeptics

Religion and the Environment



**Emma Bloomfield**

This book examines climate skepticism and proposes strategies for engaging climate skeptics. Rather than thinking of skeptics as a single unified group, this book argues that it is essential to recognize there are different types of skeptics so that we can better tailor our communication strategies to engage with them on issues of the environment and climate change.

Routledge

December 2020: 234x156: 188pp

Hb: 978-1-138-58593-5: £120.00

Pb: 978-0-367-72962-2: £36.99

eBook: 978-0-429-50492-1

\* For full contents and more information, visit: [www.routledge.com/9780367729622](http://www.routledge.com/9780367729622)

## Cost Engineering for Pollution Prevention and Control



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

Cost Engineering for Pollution Prevention and Control examines how monetary and non-monetary factors are evaluated to select the best alternative from competitive engineering proposals-judged with respect to some measure of system performance, such as total capital cost, annual cost, annual net profit, return on investment, cost-benefit ratio, net present worth, minimum production time, maximum production rate, minimum energy utilization, and so on.

CRC Press

Market: Environmental Engineering

March 2021: 254 x 178: 376pp

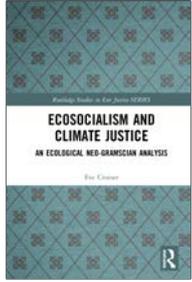
Hb: 978-0-367-71060-6: £89.99

eBook: 978-1-003-15469-3

\* For full contents and more information, visit: [www.crcpress.com/9780367710606](http://www.crcpress.com/9780367710606)

## Ecosocialism and Climate Justice

An Ecological Neo-Gramscian Analysis



Eve Croeser

Series: *Routledge Studies in Environmental Justice*

This book investigates the broader climate movement to contextualise the role played by its climate justice wing, focussing on the theoretical and practical contributions of ecosocialists. Croeser critically analyses the root causes of anthropogenic climate change and identifies the origins and development of the current climate movement within civil society. She then focuses on the climate justice movement, analysing the ways in which anthropogenic global warming may be challenged in a way that is socially just. This book will be of great interest to students and scholars of climate justice, climate politics, critical global political economy studies and

environmental activism.

Routledge

Market: Climate Justice/Environmental Politics

October 2020: 234x156: 224pp

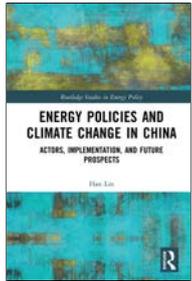
Hb: 978-0-367-89453-5: **£120.00**

eBook: 978-1-003-01926-8

\* For full contents and more information, visit: [www.routledge.com/9780367894535](http://www.routledge.com/9780367894535)

## Energy Policies and Climate Change in China

Actors, Implementation, and Future Prospects



Han Lin

Series: *Routledge Studies in Energy Policy*

This book analyses China's two most significant climate-related energy policies, the Clean Development Mechanism (CDM) (including the later Chinese Certified Emission Reduction - CCER) and the Energy Conservation and Emission Reduction Scheme (ECERS) and concludes by offering detailed and practical solutions to address each specific deficiency in the CDM and ECERS policies. This book will be of great interest to students, scholars and policymakers interested in climate change and energy, and Chinese environmental policy and politics.

Routledge

Market: Climate Change / Energy Policy / China

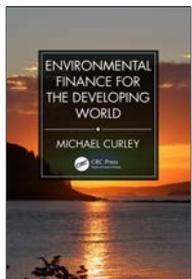
August 2019: 234x156: 206pp

Hb: 978-0-367-00173-5: **£120.00**

eBook: 978-0-429-40097-1

\* For full contents and more information, visit: [www.routledge.com/9780367001735](http://www.routledge.com/9780367001735)

## Environmental Finance for the Developing World



Michael Curley

Financing the Global Environment examines the financial techniques and strategies necessary to obtain funding to undertake infrastructure and environmental projects. Despite conventional notions that monies are typically not readily available for large-scale environmental projects, the book explains how this is usually not the case, and will provide the necessary steps, tools, and organizational methods necessary for successful project finance in any region. It demonstrates how the largest possible projects could be undertaken at the lowest possible cost and how a utility's excess operating income could be used to improve the system.

CRC Press

Market: Environmental Engineering

April 2020: 235 x 156: 294pp

Hb: 978-0-367-33686-8: **£89.99**

eBook: 978-0-429-32123-8

\* For full contents and more information, visit: [www.crcpress.com/9780367336868](http://www.crcpress.com/9780367336868)

## Flood Risk Management

Global Case Studies of Governance, Policy and Communities



Edited by **Edmund C. Penning-Rowsell**, Middlesex University, UK and **Matilda Becker**, University of Oxford, UK  
Series: *Earthscan Water Text*

Our changing climate and more extreme weather events have dramatically increased the number and severity of floods across the world. Demonstrating the diversity of global Flood Risk Management (FRM), this volume covers a range of topics including planning and policy, risk governance and communication, forecasting and warning, and economics.

Through short case studies, the range of international examples from North America, Europe, Asia and Africa, provide analysis of FRM efforts, processes and issues from human, governance and

policy implementation perspectives.

Routledge

Market: Environment & Sustainability / Geography / Risk Management

January 2019: 234x156: 224pp

Hb: 978-1-138-54190-0: **£120.00**

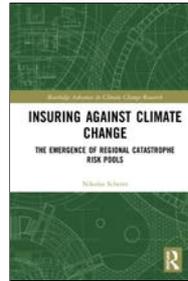
Pb: 978-1-138-54191-7: **£39.99**

eBook: 978-1-351-01000-9

\* For full contents and more information, visit: [www.routledge.com/9781138541917](http://www.routledge.com/9781138541917)

## Insuring Against Climate Change

The Emergence of Regional Catastrophe Risk Pools



Nikolas Scherer

Series: *Routledge Advances in Climate Change Research*

This book provides one of the first systematic in-depth studies on regional catastrophe risk pools. It explores the various goals of these new financial instruments, illustrating how they function on a conceptual, technical and practical level, and reconstructs their political genesis. Making a significant contribution to current debates on the opportunities and limitations of what are sometimes described as indirect 'climate risk insurance', this book will be of great interest to political scientists with an interest in insurance instruments and climate-related disaster management politics as well as to practitioners working in the insurance, finance and the development sector.

Routledge

Market: Risk Assessment / Climate Change

March 2020: 234x156: 282pp

Hb: 978-0-367-34247-0: **£120.00**

eBook: 978-0-429-32464-2

\* For full contents and more information, visit: [www.routledge.com/9780367342470](http://www.routledge.com/9780367342470)

## Linking the European Union Emissions Trading System

Political Drivers and Barriers

Charlotte Unger

Series: *Routledge Focus on Environment and Sustainability*

This book focuses on the linking of the European Union Emissions Trading System (EU ETS) with other independent regional ETS. Specifically, it analyses which of these aspects have played a role in three different linking activities of the EU: 1. a failed linking attempt: EU ETS – California Cap-and-Trade Program; 2. a successful linking treaty: EU ETS – Switzerland Emissions Trading System; and 3. an agreed-upon but not realized link: EU ETS – Australia Carbon Pricing Mechanism. This book will be of great interest to scholars and policymakers working in climate policy and EU environmental politics.

Routledge

January 2021: 216x138: 152pp

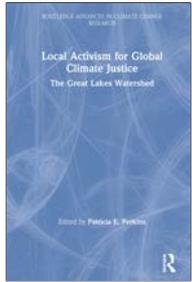
Hb: 978-0-367-42969-0: **£44.99**

eBook: 978-1-003-00043-3

\* For full contents and more information, visit: [www.routledge.com/9780367429690](http://www.routledge.com/9780367429690)

## Local Activism for Global Climate Justice

The Great Lakes Watershed



Edited by **Patricia E. Perkins**

Series: *Routledge Advances in Climate Change Research*

This book will inspire and spark grassroots action to address the inequitable impacts of climate change, by showing how this can be tackled and the many benefits of doing so. It pays special attention to Canada and the Great Lakes watershed, showing how the effects of climate change span local, regional, and global scales. Showcasing a diverse range of inspirational and thought-provoking case studies, this book will be of great interest to students and scholars of climate justice, climate change policy, climate ethics and global environmental governance, as well as teachers and climate activists.

Routledge

Market: climate justice/environmental studies

September 2019: 234x156: 310pp

Hb: 978-0-367-33587-8: **£120.00**

Pb: 978-0-367-33589-2: **£34.99**

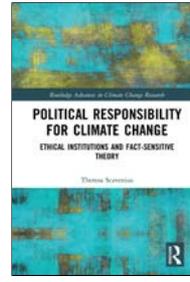
eBook: 978-0-429-32070-5

\* For full contents and more information, visit: [www.routledge.com/9780367335892](http://www.routledge.com/9780367335892)



## Political Responsibility for Climate Change

Ethical Institutions and Fact-Sensitive Theory



**Theresa Birgitta Brønnum Scavenius**, University of Aalborg, Denmark.

Series: *Routledge Advances in Climate Change Research*

This book offers new perspectives on how social and political institutions can respond more effectively to climate change. It outlines building blocks for a new agenda of climate studies by offering an innovative approach to climate governance and democratic climate action at a time when many political initiatives have failed. Written in an accessible and engaging style, this volume will be an invaluable reference for researchers interested in moral philosophy, climate change, environmental politics and policy, and institutional theory.

Routledge

Market: Climate Change/Environmental Studies

August 2019: 234x156: 192pp

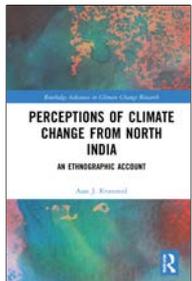
Hb: 978-0-367-18970-9: **£120.00**

eBook: 978-0-367-18972-3

\* For full contents and more information, visit: [www.routledge.com/9780367189709](http://www.routledge.com/9780367189709)

## Perceptions of Climate Change from North India

An Ethnographic Account



**Aase J. Kvanneid**

Series: *Routledge Advances in Climate Change Research*

Perceptions of Climate Change from North India explores local perceptions of climate change through ethnographic encounters with the men and women who live at the front line of climate change in the lower Himalayas.

From data collected over the course of a year in a small village in an eco-sensitive zone in North India, this book presents an ethnographic account of local responses to climate change, resource management and indigenous environmental knowledge. This book will be of great interest to students and scholars of the anthropology of climate change, environmental sociology and rural development.

Routledge

Market: Climate Change / Rural Development

March 2021: 234x156: 192pp

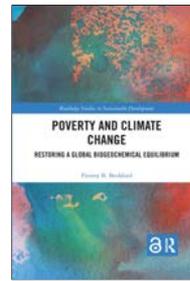
Hb: 978-0-367-42143-4: **£120.00**

eBook: 978-0-367-82214-9

\* For full contents and more information, visit: [www.routledge.com/9780367421434](http://www.routledge.com/9780367421434)

## Poverty and Climate Change

Restoring a Global Biogeochemical Equilibrium



**Fitzroy B. Beckford**

Series: *Routledge Studies in Sustainable Development*

Ever since Europeans made contact with the West, a series of global circumstances including the genocide of the indigenous people of the Americas, the enslavement and global subjugation of Africans, and the emergence of Western concepts of trade dominance and capitalism, have led to deleterious impacts on the global biogeochemical cycles. Addressing the broken biogeochemical cycles should be done with a clear understanding that it was not only human subjects which were subjugated, but also land, water, and air. This book will be of great interest to students and scholars of sustainable development, political ecology, sustainable agriculture, climate change and environmental justice.

Routledge

Market: Environment / Climate Change

March 2020: 234x156: 188pp

Hb: 978-1-138-34541-6: **£120.00**

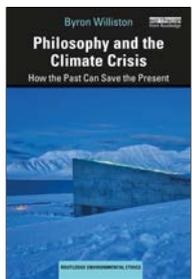
Pb: 978-0-367-50058-0: **£36.99**

eBook: 978-0-429-43789-2

\* For full contents and more information, visit: [www.routledge.com/9780367500580](http://www.routledge.com/9780367500580)

## Philosophy and the Climate Crisis

How the Past Can Save the Present



**Byron Williston**

Series: *Routledge Environmental Ethics*

This book explores how the history of philosophy can orient us to the new reality brought on by the climate crisis. This book explores five past crises, each involving a unique form of collective trauma. These events—war, occupation, exile, scientific revolution and political revolution—inspired the philosophers (Plato, Augustine, Descartes, Spinoza and Hegel) to remake the whole world in thought, to construct a metaphysics. *Philosophy and the Climate Crisis* will be of great interest to students and scholars of climate change, environmental philosophy and ethics and the environmental humanities.

Routledge

Market: climate change/environmental philosophy

October 2020: 234x156: 202pp

Hb: 978-0-367-50679-7: **£120.00**

Pb: 978-0-367-50680-3: **£34.99**

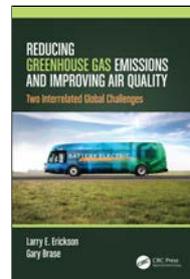
eBook: 978-1-003-05076-6

\* For full contents and more information, visit: [www.routledge.com/9780367506803](http://www.routledge.com/9780367506803)



## Reducing Greenhouse Gas Emissions and Improving Air Quality

Two Interrelated Global Challenges



**Larry E. Erickson**, Kansas State University, Manhattan, USA and **Gary Brase**

Our lives are impacted by energy, transportation, air quality, and climate change. This book will help readers understand the transitions that happen at the nexus of these areas, as they relate to reducing greenhouse gas emissions and improving air quality, and the benefits of these transitions for electric vehicles, solar and wind energy for electricity generation, battery developments, smart grids and electric power management, and progress in the electrification of agricultural technology. It aims to provide the latest information in the context of the United Nations sustainable development goals and the Paris Agreement on Climate Change.

CRC Press

Market: Environmental Science

November 2019: 235 x 156: 178pp

Hb: 978-0-815-36127-5: **£120.00**

Pb: 978-0-367-40875-6: **£44.99**

eBook: 978-1-351-11658-9

\* For full contents and more information, visit: [www.crcpress.com/9780367408756](http://www.crcpress.com/9780367408756)

## Regenerative Urban Development, Climate Change and the Common Good



Edited by **Beth Schaefer Caniglia**, Oklahoma State University, Department of Sociology, USA, **Beatrice Frank**, Oklahoma State University, Department of Sociology, **John L. Knott, Jr.**, **Kenneth S. Sagendorf** and **Eugene A. Wilkerson**

*Series: Routledge Advances in Climate Change Research*

This volume focuses on the theory and practice of the regenerative development paradigm, which is rapidly displacing sustainability as the most fertile ground for climate change adaptation research. It 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

**Market:** Climate Change / Environment and the City / Planning and Sustainability

August 2019: 234x156: 300pp

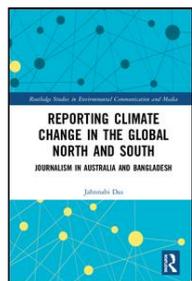
Hb: 978-1-138-55692-8: **£120.00**

eBook: 978-1-315-15050-5

\* For full contents and more information, visit: [www.routledge.com/9781138556928](http://www.routledge.com/9781138556928)

## Reporting Climate Change in the Global North and South

Journalism in Australia and Bangladesh



**Jahnabi Das**, University of Technology Sydney, Australia

*Series: Routledge Studies in Environmental Communication and Media*

This book reveals how journalists in the Global North and Global South mediate climate change by examining journalism and reporting in Australia and Bangladesh. This dual analysis presents a unique opportunity to examine the impacts of media and communication in two contrasting countries (in terms of economy, income and population size) which share similar climate change challenges. This book will be of great interest to students and scholars of climate change and environmental journalism, as well as media and communication studies more broadly.

Routledge

**Market:** Environmental Communication

September 2019: 234x156: 174pp

Hb: 978-1-138-39240-3: **£120.00**

eBook: 978-0-429-40221-0

\* For full contents and more information, visit: [www.routledge.com/9781138392403](http://www.routledge.com/9781138392403)

## 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

June 2020: 246x174: 452pp

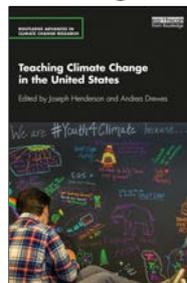
Hb: 978-1-138-23245-7: **£190.00**

Pb: 978-0-367-51876-9: **£39.99**

eBook: 978-1-315-31257-6

\* For full contents and more information, visit: [www.routledge.com/9780367518769](http://www.routledge.com/9780367518769)

## Teaching Climate Change in the United States



Edited by **Joseph Henderson** and **Andrea Drewes**

*Series: Routledge Advances in Climate Change Research*

This book highlights best practices in climate change education through the analysis of a rich collection of case studies that showcase educational programs across the United States. The contributions throughout cover a multitude of topics, including the challenge of multi-stakeholder projects; tensions between indigenous knowledge and scientific research; education for youth activism; and professional learning. By telling stories of success and failure from the field, this book provides climate change researchers and educators with tools to help them navigate increasingly rough and rising waters.

Routledge

**Market:** Climate Change Education/Environmental Studies

April 2020: 234x156: 222pp

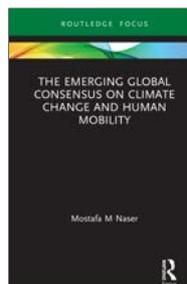
Hb: 978-0-367-17946-5: **£120.00**

Pb: 978-0-367-17947-2: **£34.99**

eBook: 978-0-367-17949-6

\* For full contents and more information, visit: [www.routledge.com/9780367179472](http://www.routledge.com/9780367179472)

## The Emerging Global Consensus on Climate Change and Human Mobility



**Mostafa M Naser**

*Series: Routledge Focus on Environment and Sustainability*

This book examines whether a global consensus is emerging on climate change and human mobility and presents evidence of a slow-moving but dynamic, step-by-step process of international policy development on climate-related mobility. Naser examines the accumulating stock of international policies and initiatives relevant to climate-related mobility using a framework of six policy areas: human rights; refugees; climate change; disaster risk reduction; migration; and sustainable development. This book will be of great relevance to students, scholars and policymakers with an interest in the increasing interface between climate change and human mobility policy

issues.

Routledge

**Market:** Environmental Policy / Environmental Migration

November 2020: 216x138: 106pp

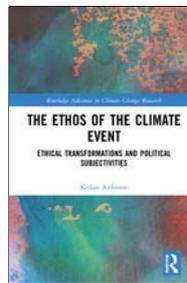
Hb: 978-1-138-09718-6: **£45.00**

eBook: 978-1-315-10503-1

\* For full contents and more information, visit: [www.routledge.com/9781138097186](http://www.routledge.com/9781138097186)

## The Ethos of the Climate Event

Ethical Transformations and Political Subjectivities



**Kellan Anfinson**

*Series: Routledge Advances in Climate Change Research*

This book develops a politico-ethical response to climate change that accounts for the novelty and uncertainty that it entails. This volume explores the ethical dimensions of climate change and posits that one must view it as a social construction intimately tied to political issues in order to understand and overcome this environmental challenge. Presenting a multidisciplinary engagement with the politics, philosophy, and science of climate change, this book will be of great interest to students and scholars of climate change, environmental politics, environmental philosophy and environmental humanities.

Routledge

**Market:** Climate Change/Environmental Ethics

December 2020: 234x156: 208pp

Hb: 978-0-367-48457-6: **£120.00**

eBook: 978-1-003-04419-2

\* For full contents and more information, visit: [www.routledge.com/9780367484576](http://www.routledge.com/9780367484576)

## The Politics of the Climate Change-Health Nexus

Maximilian Jungmann

Series: *Routledge Studies in Environment and Health*

This book compares how governments in 192 countries perceive climate change related health risks and which measures they undertake to protect their populations. Building on case studies from the United Kingdom, Ireland, South Korea, Japan and Sri Lanka, it demonstrates the strong influence of epistemic communities and international organisations on decision making in the field of climate change and health. This volume will be of great interest to students and scholars of climate change and public health. It will also be a valuable resource for policymakers from around the world to improve the health adaptation work in their own countries.

Routledge

Market: climate change/public health

April 2021: 234x156: 240pp

Hb: 978-0-367-70313-4: £120.00

eBook: 978-1-003-14564-6

\* For full contents and more information, visit: [www.routledge.com/9780367703134](http://www.routledge.com/9780367703134)

## Towards a Climate-Neutral Europe

Curbing the Trend



Edited by Jos Delbeke, Directorate-General for Climate Action, European Commission, Belgium and Peter Vis, University of Oxford, UK

This book explains the EU's climate policies in an accessible way, to demonstrate the step-by-step approach that has been used to develop these policies, and the ways in which they have been tested and further improved in the light of experience. The latest changes to the legislation are fully explained throughout. The book stands out by the fact it covers the EU's emissions trading system, the energy sector and other economic sectors, including their development in the context of international climate policy. This accessible book will be of great relevance to students, scholars and policy makers alike.

Routledge

Market: European Studies/Climate Policy

October 2019: 216x138: 248pp

Hb: 978-9-276-09260-5: £120.00

Pb: 978-9-276-08261-3: £34.99

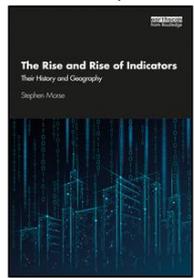
eBook: 978-9-276-08256-9

\* For full contents and more information, visit: [www.routledge.com/9789276082613](http://www.routledge.com/9789276082613)



## The Rise and Rise of Indicators

Their History and Geography



Stephen Morse, University of Surrey, UK

This book makes indicators more accessible, in terms of what they are, who created them and how they are used. It examines the subjectivity and human frailty behind these quintessentially 'hard' and technical measures of the world. It examines the growing emphasis on indicators as important tools in the Sustainable Development Goals that have been set for the world up until 2030, and is a valuable resource for undergraduate and postgraduate students in the areas of economics, sociology, geography, environmental studies, development studies, area studies, business studies, politics and international relations.

Routledge

Market: Environment / Sustainability

May 2019: 234x156: 254pp

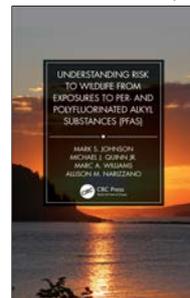
Hb: 978-0-415-78680-5: £120.00

Pb: 978-0-415-78681-2: £34.99

eBook: 978-1-315-22667-5

\* For full contents and more information, visit: [www.routledge.com/9780415786812](http://www.routledge.com/9780415786812)

## Understanding Risk to Wildlife from Exposures to Per- and Polyfluorinated Alkyl Substances (PFAS)



Mark S. Johnson, Michael J. Quinn Jr., Marc A. Williams and Allison M. Narizzano

This provides the most recent summary of toxicity data relevant to mammals, birds, reptiles, and amphibians and provides values for use in risk assessment applications. Predicting the bioaccumulation of PFAS in terrestrial wildlife (including humans) has proven to be extremely complex. As a group, they act differently than traditional non-ionic organic molecules where they can breakdown and reform, while some are demonstrated to be extremely persistent. Where sufficient data are provided, the book establishes toxicity reference values (TRVs), which are derived to assist in characterizing environmental sources and making risk-based decisions.

CRC Press

April 2021: 234x156: 192pp

Hb: 978-0-367-75407-5: £99.99

eBook: 978-1-003-16247-6

\* For full contents and more information, visit: [www.crcpress.com/9780367754075](http://www.crcpress.com/9780367754075)

## Theatre Pedagogy in the Era of Climate Crisis

Edited by Conrad Alexandrowicz and David Fancy

Series: *Research and Teaching in Environmental Studies*

This volume explores whether theatre pedagogy can and should be transformed in response to the global climate crisis. Comprised of contributions from a broad range of scholars and practitioners, the volume explores whether an adherence to aesthetic values can be preserved when art is instrumentalized as protest, and considers theatre as a tool to be employed by the School Strike for Climate movement. This book will be of great interest to students, scholars and practitioners of climate change and theatre and performance studies.

Routledge

Market: climate change/ theatre studies

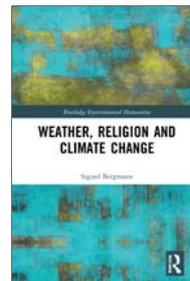
April 2021: 234x156: 232pp

Hb: 978-0-367-54154-5: £120.00

eBook: 978-1-003-08782-3

\* For full contents and more information, visit: [www.routledge.com/9780367541545](http://www.routledge.com/9780367541545)

## Weather, Religion and Climate Change



Sigurd Bergmann

Series: *Routledge Environmental Humanities*

In critical dialogue with meteorology and climate science, *Weather, Religion and Climate Change* takes the reader beyond the limits of contemporary thinking about the Anthropocene and explores whether a deeper awareness of weather might impact on the relationship between nature and self. Drawing on a wide range of examples, including paintings by J.W.M. Turner, medieval sacred architecture, and Aristotle's classical *Meteorologica*, Bergmann examines a geographically and historically wide range of cultural practices, religious practices and worldviews in which weather appears as a central, sacred force of life.

Routledge

Market: Environment / Environmental Humanities

December 2020: 234x156: 260pp

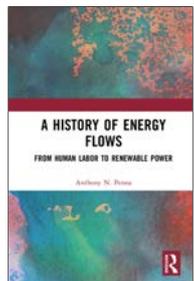
Hb: 978-0-367-35880-8: £120.00

eBook: 978-0-429-34240-0

\* For full contents and more information, visit: [www.routledge.com/9780367358808](http://www.routledge.com/9780367358808)

## A History of Energy Flows

From Human Labor to Renewable Power



Anthony N. Penna

The search for sustainable energy is a key issue dominating today's energy regime. *A History of Energy Flows* details the historical evolution of energy, following the overlapping and slow transition from one regime to another. In doing so it seeks to provide insight into future energy flows and the means of utilising sustainable energy sources to reduce fossil fuel footprints. This book will be of great interest to students and scholars of energy transitions, sustainable energy, and environmental and energy history.

Routledge

Market: Energy History / Energy Transitions

September 2019: 234x156: 286pp

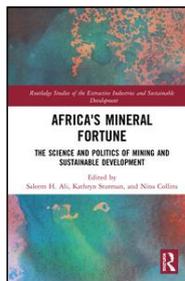
Hb: 978-1-138-58829-5: £120.00

eBook: 978-0-429-49238-9

\* For full contents and more information, visit: [www.routledge.com/9781138588295](http://www.routledge.com/9781138588295)

## Africa's Mineral Fortune

The Science and Politics of Mining and Sustainable Development



Edited by Saleem H. Ali, Kathryn Sturman and Nina Collins

This book synthesises perspectives from multiple disciplines to address Africa's development goals in relation to its mineral resources. It covers policy issues, environmental challenges, public health impacts and the role of globalization within the extractive industries, with field vignettes from practitioners providing case studies. It summarises the challenges of natural resource governance, and how mining can be more effectively managed in Africa.

Routledge

June 2020: 234x156: 320pp

Hb: 978-1-138-60692-0: £120.00

Pb: 978-0-367-58758-1: £36.99

eBook: 978-0-429-46742-4

\* For full contents and more information, visit: [www.routledge.com/9780367587581](http://www.routledge.com/9780367587581)

## Advanced Coal Preparation and Beyond

CO2 Capture and Utilization



S. Komar Kawatra

This title focuses on CO2 sequestration and utilization. Capture approaches cover post-combustion scrubber options applicable to coal and other fuels and pre-combustion capture options specific to coal. Information on practical implementations at full scale power facilities around the world is included. Coverage of sequestration includes underground, oceanic, biological, and alternative long-term CO2 storage methods. It also includes recent advances in utilizing CO2 for enhanced oil recovery, advances in storage with depleted oil and gas reservoirs and deep saline aquifers, and additional topics. The book focuses on physical and chemical applications of captured CO2 of varying purities.

CRC Press

Market: Materials Science

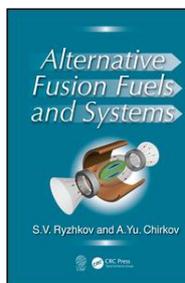
February 2020: 235 x 156: 496pp

Hb: 978-0-367-22884-2: £130.00

eBook: 978-0-429-28832-6

\* For full contents and more information, visit: [www.crcpress.com/9780367228842](http://www.crcpress.com/9780367228842)

## Alternative Fusion Fuels and Systems



Sergei V. Ryzhkov and Alexei Yu. Chirkov

Explores the systems of magnetic confinement of high-temperature plasma with closed and open magnetic field lines which relate to alternative compact devices of controlled thermonuclear fusion. Energy balance schemes of thermonuclear plasmas and main reactor characteristics are presented as the authors compare conceptual projects based on classical tokamak and stellarator, spherical tokamak and compact torus. They explore the questions and problems of new promising nuclear and thermonuclear power plants that source thermonuclear neutrons on a mixture of deuterium and tritium, and a low-radioactive reactor on a mixture of deuterium and helium-3.

CRC Press

June 2020: 234x156: 210pp

Hb: 978-0-367-02471-0: £160.00

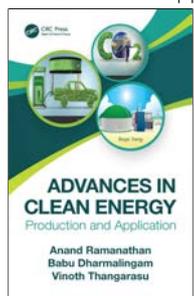
Pb: 978-0-367-57077-4: £41.99

eBook: 978-0-429-39939-8

\* For full contents and more information, visit: [www.crcpress.com/9780367570774](http://www.crcpress.com/9780367570774)

## Advances in Clean Energy

Production and Application



Anand Ramanathan, National Institute of Technology, Trichy, India, Babu Dharmalingam, National Institute of Technology, Trichy, India and Vinoth Thangarasu, National Institute of Technology, Trichy, India

This book endeavours to support sustainable clean energy technology and green fuel for clean combustion by reviewing the pros/cons of currently available technologies on biodiesel production from biomass sources, recent fuel modification strategy, low-temperature combustion technology and biofuels derived from biomass sources. Discussed topics include overview of global energy sources and present energy scenario, biodiesel production techniques, the physico-chemical and thermal behavior of biodiesel, metal and alcohol additives

on diesel engine combustion, novel advanced injection strategy, low-temperature combustion technology, lignocellulose biomass and conversion into biofuels.

CRC Press

Market: Energy and Clean Technology

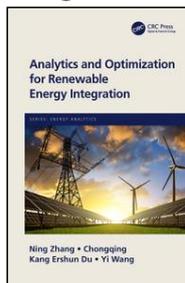
October 2020: 235 x 156: 273pp

Hb: 978-0-367-51912-4: £105.00

eBook: 978-1-003-05568-6

\* For full contents and more information, visit: [www.crcpress.com/9780367519124](http://www.crcpress.com/9780367519124)

## Analytics and Optimization for Renewable Energy Integration



Ning Zhang, Tsinghua University, Beijing, China, Chongqing Kang, Tsinghua University Room 3-204, West Academic Building Beijing, China 100084, Ershun Du, Tsinghua University Room 3-208, West Main Building Beijing, China 100084 and Yi Wang, Tsinghua University Room 3-208, West Academic Building Beijing, China 100084

Series: Energy Analytics

The scope of this book covers the modeling and forecast of renewable energy and operation and planning of power system with renewable energy integration. The first part presents mathematical theories of stochastic mathematics; the second presents modeling and analytic techniques for renewable energy generation; the third provides solutions on how to handle the

uncertainty of renewable energy in power system operation. It includes advanced stochastic unit commitment models to acquire the optimal generation schedule under uncertainty, efficient algorithms to calculate the probabilistic power, and an efficient operation strategy for renewable power plants participating in electricity markets.

CRC Press

Market: Engineering - Electrical

February 2019: 235 x 156: 394pp

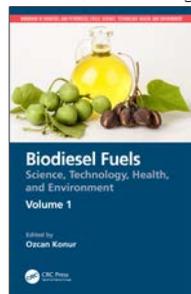
Hb: 978-1-138-31682-9: £140.00

eBook: 978-0-429-45509-4

\* For full contents and more information, visit: [www.crcpress.com/9781138316829](http://www.crcpress.com/9781138316829)

## Biodiesel Fuels

Science, Technology, Health, and Environment



Edited by **Ozcan Konur**

Series: *Handbook of Biodiesel and Petrodiesel Fuels*

This book focuses on the production and properties of bioenergy and biofuels, biochemicals, and other bioproducts produced from glycerol. The first volume of the Handbook of Biodiesel and Petrodiesel Fuels is broken up into four parts. Part 1. Science, Technology, Health, and Environment of Biodiesel and Petrodiesel Fuels. Part 2. General Overview of Biooils. part 3. General Overview of Biodiesel. Part 4. Biodiesel Waste-Glycerol. focuses on the introductory chapters on, biooils, biodiesel fuels, and biodiesel fuel wastes (glycerol).

CRC Press

Market: Biofuels

March 2021: 234x156: 456pp

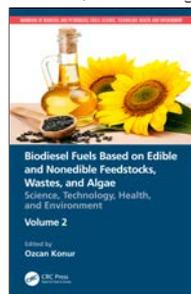
Hb: 978-0-367-45614-6: **£130.00**

eBook: 978-0-367-45623-8

\* For full contents and more information, visit: [www.crcpress.com/9780367456146](http://www.crcpress.com/9780367456146)

## Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae

Science, Technology, Health, and Environment



Edited by **Ozcan Konur**

Series: *Handbook of Biodiesel and Petrodiesel Fuels*

Part of a three volume handbook covering major research of petrodiesel and biodiesel fuels, this volume focuses on production, properties, performance, emissions, and catalysts of biodiesel fuels from edible and nonedible biooils, as well as wastes and algae. It also addresses public concerns and benefits of each, related to the use of edible oils for biodiesel fuel production as they result in the competition with the use of these edible oils as food would also be covered in this part This book also discusses the public environmental benefits and concerns related to the use of algal biooils for biodiesel fuel production.

CRC Press

Market: Biofuels

March 2021: 234x156: 416pp

Hb: 978-0-367-45615-3: **£130.00**

eBook: 978-0-367-45620-7

\* For full contents and more information, visit: [www.crcpress.com/9780367456153](http://www.crcpress.com/9780367456153)

## Biogas Technology



Edited by **Snehasish Mishra, Tapan K. Adhya and Sanjay K. Ojha**

Biogas is a renewable energy resource that can be an alternative solution for the world's insatiable energy demands while helping in managing waste and reducing the greenhouse gas (GHG) emissions. It is also regarded as carbon neutral as the carbon in biogas comes from organic matter (feedstock) that captured this carbon from atmospheric CO<sub>2</sub> over a relatively short timescale. This book has been written and compiled to collate latest information on biogas technology to help readers to understand the fruitful exploitation of the process. ; Note: T & F does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. This title is co-published with

NIPA.

CRC Press

Market: Biofuels

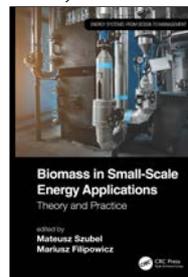
March 2021: 234x156: 418pp

Hb: 978-0-367-70201-4: **£170.00**

\* For full contents and more information, visit: [www.crcpress.com/9780367702014](http://www.crcpress.com/9780367702014)

## Biomass in Small-Scale Energy Applications

Theory and Practice



Edited by **Mateusz Szubel**, AGH University of Science and Technology al. Mickiewicza, Krakow, Poland and **Mariusz Filipowicz**, AGH University of Science and Technology al. Mickiewicza, Krakow, Poland

Series: *Energy Systems*

This book is devoted to the thermochemical conversion of biomass in distributed energy generation, automation in biomass-fired devices and supporting technologies for micro-scale biomass-based energy systems. It gives a full review of modern methods in analyses of biomass-based heat and power generation systems with experiments and simulations.

CRC Press

Market: Energy and Clean Technology

October 2019: 235 x 156: 360pp

Hb: 978-0-367-25105-5: **£130.00**

eBook: 978-0-429-28606-3

\* For full contents and more information, visit: [www.crcpress.com/9780367251055](http://www.crcpress.com/9780367251055)

## Business Battles in the US Energy Sector

Lessons for a Clean Energy Transition



**Christian Downie**

This book examines how and why business actors are shaping energy policy in the US. In doing so, this work provides the first detailed analysis of business actors in the US energy sector and presents new theoretical insights about the strategies business actors use to exert influence over the policy process. It concludes by identifying strategies that policymakers can employ to overcome resistance from the fossil fuel industries, and reflects on the implications for future research, particularly considering the impact of the Trump Presidency.

Routledge

Market: Energy Policy / Business

September 2020: 234x156: 194pp

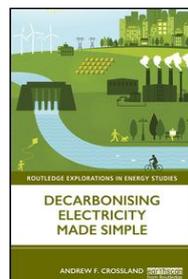
Hb: 978-1-138-39271-7: **£120.00**

Pb: 978-0-367-66208-0: **£36.99**

eBook: 978-0-429-40207-4

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## Decarbonising Electricity Made Simple



**Andrew F. Crossland**

Series: *Routledge Explorations in Energy Studies*

The book is built around developing a decarbonised electricity mix for Britain which reduces fossil fuels from 50% of supply in 2018 down to less than 5% by 2030. Crossland explores the idea of a future energy storage mix which blends domestic batteries, vehicles, thermal stores and pumped hydro to provide a flexible, responsive electricity system. Britain is used as the main example, but the themes and conclusions are applicable to a global audience and each chapter draws on practical case studies from around the world to illustrate key ideas.

Routledge

Market: Energy Efficiency / Power and Energy

July 2019: 216x138: 182pp

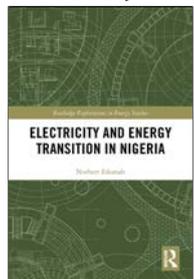
Hb: 978-0-367-20331-3: **£120.00**

Pb: 978-0-367-20332-0: **£34.99**

eBook: 978-0-367-20333-7

\* For full contents and more information, visit: [www.routledge.com/9780367203320](http://www.routledge.com/9780367203320)

## Electricity and Energy Transition in Nigeria



Norbert Edomah

Series: *Routledge Explorations in Energy Studies*

This book provides readers with a detailed account of the dynamics of energy infrastructure change in Nigeria's electricity sector. The book starts by introducing the basic theories underpinning the politics of energy infrastructure supply and goes on to explore the historical dimensions of the Nigerian energy transition by highlighting the influences and drivers of energy systems change. The book concludes by considering how all these factors may influence the future of energy in Nigeria. It will be of great interest to students and scholars of energy transitions, energy technology and infrastructure, and African Studies more generally.

Routledge

Market: Energy / Environment and Society

February 2020: 234x156: 200pp

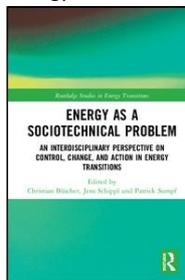
Hb: 978-0-367-20141-8: £120.00

eBook: 978-0-367-20145-6

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## Energy as a Sociotechnical Problem

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



Edited by Christian Büscher, Jens Schippl and Patrick Sumpf

Drawing on contributions which tie together important concepts and themes including innovation, resilience and institutional design, *Energy as a Sociotechnical 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 social science more generally, as well as to practitioners working within the field of energy policy.

Routledge

June 2020: 234x156: 304pp

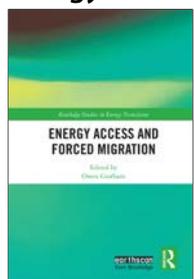
Hb: 978-1-138-73582-8: £120.00

Pb: 978-0-367-58607-2: £36.99

eBook: 978-1-315-18631-3

\* For full contents and more information, visit: [www.routledge.com/9780367586072](http://www.routledge.com/9780367586072)

## Energy Access and Forced Migration



Edited by Owen Grafham

Series: *Routledge Studies in Energy Transitions*

The contributions throughout this volume assess the current energy governance regimes, models of delivery, and innovative solutions that are dictating how energy is - and can be - provided to those who have been forcibly displaced. By bringing together author-teams of practitioners, academics, businesses, and policy-makers, this collection encourages interdisciplinary dialogue about the best way of approaching energy provision for the forcibly displaced. It will be of great interest to students and scholars of energy access and policy, environmental justice and equity, and migration and refugee studies.

Routledge

Market: Environment and Sustainability

December 2019: 234x156: 208pp

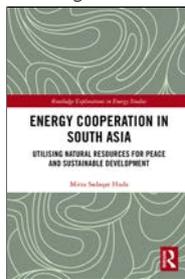
Hb: 978-1-138-54338-6: £120.00

eBook: 978-1-351-00694-1

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## Energy Cooperation in South Asia

Utilizing Natural Resources for Peace and Sustainable Development



Mirza Sadaqat Huda

Series: *Routledge Explorations in Energy Studies*

This book analyses the key political challenges to regional energy cooperation in South Asia. It argues that investment in the planning of regional energy projects can increase their viability and also drive integration and peacebuilding. Focussing on cases in India, Bangladesh, Pakistan and Nepal, this book identifies the specific roadblocks to energy co-operation and evaluates how these political challenges determine regional interactions on energy securitization, environmental cooperation and human rights. This book will be of great interest to students and scholars of energy security and geopolitics, natural resource governance and South Asian politics.

Routledge

Market: Climate Change / Energy

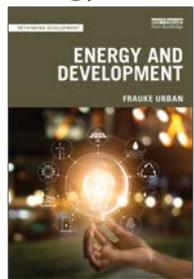
April 2020: 234x156: 208pp

Hb: 978-0-367-42968-3: £120.00

eBook: 978-1-003-00042-6

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## Energy and Development



Frauke Urban

Series: *Rethinking Development*

This book explores the key issues and concepts in the field of energy and development and addresses policy responses such as the energy aims of the SDGs and the United Nation's target of universal energy access. It outlines various options for delivering energy access, both low carbon and fossil fuel-based, and examines the environmental, socio-economic and technological implications of these possibilities. Taking a holistic and multi-disciplinary approach, and containing useful teaching resources including recommended reading lists and seminar questions, this book will be a great resource for students and scholars of energy and development.

Routledge

Market: Energy/Development Studies

November 2019: 234x156: 260pp

Hb: 978-1-138-48595-2: £120.00

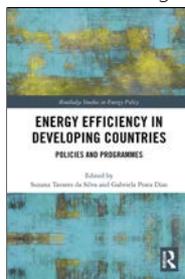
Pb: 978-1-138-48596-9: £34.99

eBook: 978-1-351-04748-7

\* For full contents and more information, visit: [www.routledge.com/9781138485969](http://www.routledge.com/9781138485969)

## Energy Efficiency in Developing Countries

Policies and Programmes



Edited by Suzana Tavares da Silva and Gabriela Prata Dias

Series: *Routledge Studies in Energy Policy*

This book presents a comparative analysis of energy efficiency policies in developing countries. Drawing on a wide range of case studies including Brazil, China and Chile, the authors use a comparative approach to examine the policies and programmes being implemented, looking at the existing legal frameworks and regulatory challenges. This volume will be a useful resource for scholars and practitioners with an interest in energy policy and efficiency, climate change and international development.

Routledge

Market: Energy / Developing Countries

February 2020: 234x156: 316pp

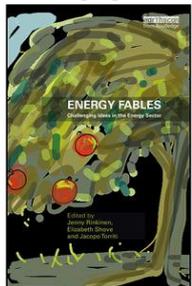
Hb: 978-0-367-36197-6: £120.00

eBook: 978-0-429-34454-1

\* For full contents and more information, visit: [www.routledge.com/9780367361976](http://www.routledge.com/9780367361976)

## Energy Fables

Challenging Ideas in the Energy Sector



Edited by Jenny Rinkinen, Elizabeth Shove and Jacopo Torriti

*Energy Fables: Challenging Ideas in the Energy Sector* takes a fresh look at key terms and concepts around which energy research and policy are organised. Drawing on recent research in energy and transport studies, and combining this with concepts from sociology, economics, social theory and technology studies, the chapters in this collection review and challenge different aspects of received wisdom. This book presents a valuable and thought-provoking resource for students, researchers and policy-makers interested energy demand, politics and policy.

Routledge

Market: Energy Policy and Economics / Environment and Society

May 2019: 216x138: 142pp

Hb: 978-0-367-02775-9: £120.00

Pb: 978-0-367-02779-7: £19.99

eBook: 978-0-429-39781-3

\* For full contents and more information, visit: [www.routledge.com/9780367027797](http://www.routledge.com/9780367027797)



## European Law on Combined Heat and Power



Maciej M. Sokołowski, Basel University, Switzerland

Series: *Routledge Research in Energy Law and Regulation*

This book provides an analysis of the European policy approach to combined heat and power (CHP), a highly efficient technology used by all EU Member States for the needs of generating electricity and heat. It carries out an assessment of the European legal and policy measures on CHP, evaluating how it has changed over the years through progress and decline in specific member states. This book will be of great interest to students and scholars of energy law and regulation, combined heat and power and energy efficiency, as well as policy makers and energy experts working in the CHP sector.

Routledge

Market: EU Energy Law / Climate-Energy Policy

March 2020: 234x156: 268pp

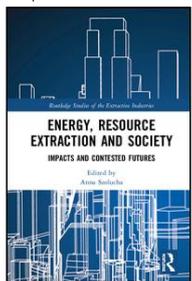
Hb: 978-0-367-44023-7: £120.00

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## Energy, Resource Extraction and Society

Impacts and Contested Futures



Edited by Anna Szolucha

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.

Routledge

June 2020: 234x156: 236pp

Hb: 978-0-815-38015-3: £120.00

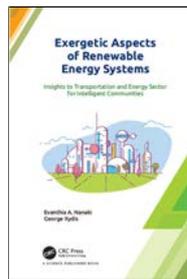
Pb: 978-0-367-58659-1: £36.99

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## Exergetic Aspects of Renewable Energy Systems

Insights to Transportation and Energy Sector for Intelligent Communities



Evanthia A. Nanaki and George Xydis

Sustainable energy planning that encompasses the concept of smart cities has considerable potential to help contribute significantly to the success of the European energy and climate targets. For improved energy efficiency, it is essential to find low carbon solutions for the urban environment. The integration and management of energy supplies, particularly with a focus on the exploitation of local resources (e.g. waste heat, renewables), is being examined through the fundamental concept of exergy. This book is designed to aid decision making, especially in regards to national and sustainable energy designs, and demonstrates how intelligent energy systems can best be utilized.

CRC Press

Market: Energy & Clean Technology

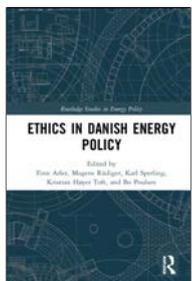
August 2019: 235 x 156: 162pp

Hb: 978-1-138-08858-0: £140.00

eBook: 978-1-315-10975-6

\* For full contents and more information, visit: [www.crcpress.com/9781138088580](http://www.crcpress.com/9781138088580)

## Ethics in Danish Energy Policy



Edited by Finn Arler, Mogens Rüdiger, Karl Sperling, Kristian Høyer Toft and Bo Poulsen

Series: *Routledge Studies in Energy Policy*

This book deepens our understanding of ethical drivers in energy policy and contributes to future decision-making on transitions towards a sustainable energy system. Using Denmark as the key case study, the ethics of energy is investigated from multiple perspectives at the individual, corporate, local and national levels, focusing on concrete decisions where different ethical considerations are weighted against each other. Drawing comparisons with European and global examples, this book will be of great interest to students and scholars of energy politics and policy, environmental ethics, climate change and

sustainability transitions.

Routledge

Market: Energy Policy / Ethics

April 2020: 234x156: 288pp

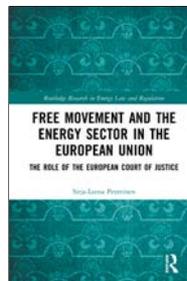
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## Free Movement and the Energy Sector in the European Union

The Role of the European Court of Justice



Sirja-Leena Penttinen

Series: *Routledge Research in Energy Law and Regulation*

This book analyses the case-law of the European Court of Justice on free movement in the energy sector. Penttinen provides a comprehensive review of the interpretation and application of the free movement provisions in the energy sector by the European Court of Justice (ECJ), which allow for cross-border energy trade (free movement of goods) and energy investments (free movement of capital). Taking a coherent, systematic approach, this volume will be of great interest to scholars of EU law and energy policy, as well as policymakers and professionals working in this sector.

Routledge

Market: Energy Law/ Environment and Sustainability

July 2020: 234x156: 264pp

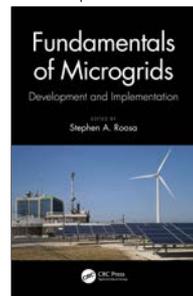
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## Fundamentals of Microgrids

Development and Implementation



Edited by **Stephen A. Roosa**

The *Fundamentals of Microgrids: Development and Implementation* provides an in-depth examination of microgrid energy sources, applications, technologies, and policies. This book considers the fundamental configurations and applications for microgrids and examines the use of microgrids as a means of meeting international sustainability goals.

CRC Press

**Market:** Civil Engineering

September 2020: 235 x 156: 302pp

Hb: 978-0-367-53539-1: **£100.00**

eBook: 978-1-003-08240-8

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Three Volume Set

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This three volume handbook covers major research in petrodiesel and biodiesel fuels. The first volume focuses on the introductory chapters for the handbook, biooils, biodiesel fuels, and biodiesel fuel wastes (glycerol). The second volume focuses on biodiesel fuels based on the four generations of feedstocks: edible feedstocks, nonedible feedstocks, waste feedstocks, and algae. Finally, volume three focuses on crude oils, petrodiesel fuels in general, emissions of petrodiesel fuels, and impact of petrodiesel fuels on human health.

CRC Press

**Market:** Biofuels

March 2021: 234x156: 1256pp

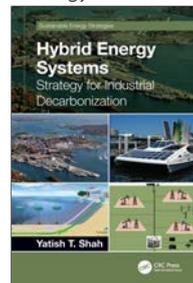
Hb: 978-0-367-45613-9: **£375.00**

eBook: 978-0-367-45619-1

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## Hybrid Energy Systems

Strategy for Industrial Decarbonization



**Yatish T. Shah**, Norfolk State University, Virginia, USA

*Series: Sustainable Energy Strategies*

This book demonstrates how hybrid energy and processes can decarbonize energy industry needs for power and heating and cooling. It describes the role of hybrid energy and processes in nine major industry sectors and discusses how hybrid energy can offer sustainable solutions in each. Sectors include coal, oil and gas, nuclear, building, vehicle, manufacturing and industrial processes, computing and portable electronic, district heating and cooling and water. Written for advanced students, researchers, and industry professionals involved in energy-related processes and plants, this book offers latest research and practical strategies for application of the innovative field of hybrid energy.

CRC Press

**Market:** Energy Engineering

April 2021: 234x156: 632pp

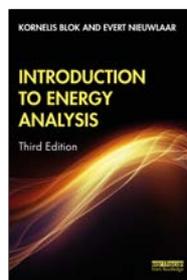
Hb: 978-0-367-74757-2: **£140.00**

eBook: 978-1-003-15942-1

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3rd Edition

## Introduction to Energy Analysis



**Kornelis Blok**, Delft University of Technology, The Netherlands and **Evert Nieuwlaar**, Utrecht University, The Netherlands

This textbook provides an introduction to energy analysis for those students who want to specialise in this challenging field. This new edition has been updated throughout and contains additional content on energy transitions and improvements in the treatment of several energy systems analysis approaches. It will be essential reading for upper-level undergraduate and postgraduate students with a background in the natural sciences and engineering. This book may also be useful for professionals dealing with energy issues, as a first introduction into the field.

Routledge

**Market:** Energy / Environment and Sustainability

November 2020: 234x156: 380pp

Hb: 978-0-367-43480-9: **£120.00**

Pb: 978-0-367-43481-6: **£36.99**

eBook: 978-1-003-00357-1

Prev. Ed Pb: 978-1-138-67115-7

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CRC Press

June 2020: 234x156: 436pp

Hb: 978-1-138-59527-9: **£200.00**

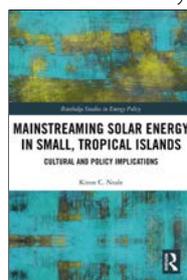
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## Mainstreaming Solar Energy in Small, Tropical Islands

Cultural and Policy Implications



**Kiron C. Neale**

*Series: Routledge Studies in Energy Policy*

This book explores how cultural considerations can improve policy-making to achieve mainstream solar energy in small, tropical islands. Focussing on Trinidad, Barbados, Kiron Neale looks at how culture can affect and be affected by the policies that support the household adoption of two key energy technologies: solar water heating and photovoltaics. Following the islands' transition to renewable energy, this book will be of great interest to scholars of energy policy, energy transitions, climate change, cultural studies and small states development, as well as industry professionals working on energy policy implementation.

Routledge

**Market:** Energy Transitions / Solar Energy / Energy Cultures

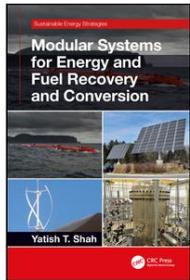
March 2020: 234x156: 224pp

Hb: 978-0-367-36456-4: **£120.00**

eBook: 978-0-429-34624-8

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## Modular Systems for Energy and Fuel Recovery and Conversion



Yatish T. Shah, Norfolk State University, Virginia, USA

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Examining modular approaches for recovery and conversion of energy and fuel, this book illustrates the importance of offering a balance of centralized and distributed energy operations made up of small- and large-scale systems. Coal, oil, natural gas, hydrogen, biomass, waste, nuclear, geothermal solar, wind, and hydroenergy are examined. The book surveys the benefits of the modular approach and where each type of energy system can be most meaningfully applied in the broad-based energy industry and describes strategies for managing modular systems. It also outlines successful examples of modular approaches implemented across industries and by energy/fuel type.

CRC Press

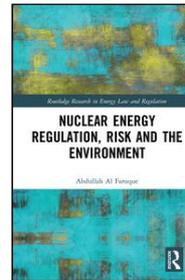
Market: Materials Science  
July 2019: 235 x 156: 563pp

Hb: 978-0-367-23512-3: **£130.00**

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## Nuclear Energy Regulation, Risk and The Environment



Abdullah Al Faruque

Analyzing the impact and benefits of nuclear energy on environment, this book examines nuclear treaties in relation to environmental protection, highlights legal framework on non-proliferation and denuclearization, explores treaties on nuclear safety and nuclear security, discusses legal regimes on management of nuclear wastes, assesses third party liability regime and discusses the role of IAEA, EURATOM and NEA in regulating nuclear energy. It explores nuclear energy in the context of climate change and sustainable development.

Routledge

June 2020: 234x156: 214pp

Hb: 978-0-815-37535-7: **£120.00**

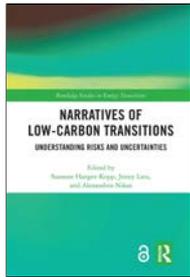
Pb: 978-0-367-58519-8: **£36.99**

eBook: 978-1-351-24006-2

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## Narratives of Low-Carbon Transitions

Understanding Risks and Uncertainties



Edited by Susanne Hanger-Kopp, Jenny Lieu and Alexandros Nikas

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Routledge

September 2020: 234x156: 296pp

Hb: 978-1-138-31158-9: **£120.00**

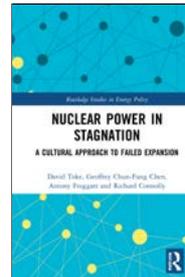
Pb: 978-0-367-66071-0: **£36.99**

eBook: 978-0-429-45878-1

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## Nuclear Power in Stagnation

A Cultural Approach to Failed Expansion



David Toke, University of Aberdeen, UK, Geoffrey Chun-Fung Chen, Antony Froggatt and Richard Connolly

Series: *Routledge Studies in Energy Policy*

This book studies the extent to which nuclear safety issues have contributed towards the stagnation of nuclear power development around the world. The authors focus on six key countries with active nuclear power programmes: USA, China, France, South Korea, UK and Russia. Their findings reveal that differences in the strictness of nuclear safety regulations can be understood by understanding differences in cultural contexts and changes in cultural context over time. This book will be of great interest to students, scholars and policymakers working on energy policy and regulation, environmental politics and

policy, and environment and sustainability more generally.

Routledge

Market: Energy / Environment

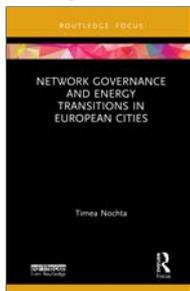
March 2021: 234x156: 216pp

Hb: 978-1-138-34119-7: **£120.00**

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## Network Governance and Energy Transitions in European Cities



Timea Nochta

Series: *Routledge Focus on Energy Studies*

Presenting a comparative analysis of three city cases from across Europe- Birmingham, Frankfurt and Budapest- this book demonstrates how local factors shape the prospect of network governance to support low-carbon energy transitions. It maps out existing governance networks, highlighting the actors involved and their interactions with one another, and also discusses the role and embeddedness of networks in the urban governance of low-carbon energy. Drawing on case study evidence, Nochta develops a comparative analysis which discusses the intricate connections between network characteristics, context and impact.

Routledge

Market: Energy/Environment and Sustainability

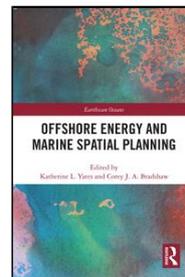
October 2020: 216x138: 169pp

Hb: 978-0-367-46506-3: **£44.99**

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## Offshore Energy and Marine Spatial Planning



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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.

Routledge

Market: Environment & Sustainability / Energy / Marine Biology

December 2020: 234x156: 324pp

Hb: 978-1-138-95453-3: **£120.00**

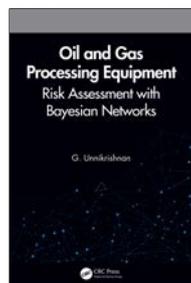
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CRC Press

**Market:** Energy, Fuels and Petrochemicals

September 2020: 235 x 156: 152pp

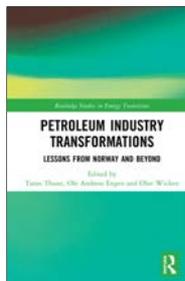
Hb: 978-0-367-25440-7: **£99.99**

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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

June 2020: 234x156: 272pp

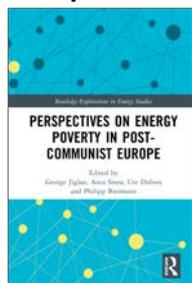
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poverty.

Routledge

**Market:** Environment / Energy

October 2020: 234x156: 252pp

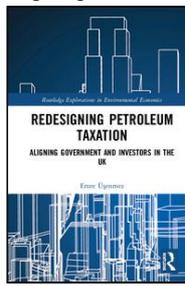
Hb: 978-0-367-43052-8: **£120.00**

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Aligning Government and Investors in the UK



**Emre Uşenmez**

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The aim of this book is to discuss the function of the fiscal regime applicable to petroleum extraction in the UK, and the possible theoretical tools that can lend themselves via the tax laws to achieve that elusive balance between attracting investments into the upstream sector and collecting an appropriate share of

the revenues in the future.

Routledge

June 2020: 234x156: 196pp

Hb: 978-1-138-21996-0: **£120.00**

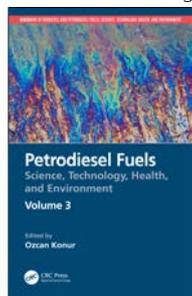
Pb: 978-0-367-58525-9: **£36.99**

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CRC Press

**Market:** Biofuels

March 2021: 234x156: 400pp

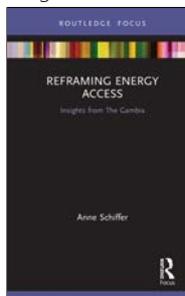
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Insights from The Gambia



**Anne Schiffer**

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This book investigates energy access through the lens of everyday energy practices in the Gambian community of Kartong. It explores past, current and potential future modes of energy production and consumption to examine concepts such as energy leapfrogging and energy sufficiency. Translating insights of energy in The Gambian context into broader themes and recommendations, this book will be of great interest to policy makers, researchers and practitioners who work in the fields of energy access, energy policy, renewable energy transitions, as well as African and sustainable development in general.

Routledge

**Market:** Energy Transitions / Sustainable Development

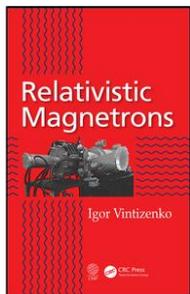
March 2020: 216x138: 142pp

Hb: 978-1-138-31169-5: **£44.99**

eBook: 978-0-429-45869-9

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## Relativistic Magnetrons



Igor Vintizenko

The first experiments with relativistic magnetrons (PM), resulted in notable results, in the USA – Massachusetts Institute of Technology and the USSR - Institute of Applied Physics. Academy of Sciences of the USSR (Gorky), and the Nuclear Physics Research Institute at the Tomsk State University, hundreds of megawatts to several gigawatts with an efficiency of 10-30% were obtained. Relativistic high-frequency electronics has now become one of the fastest growing areas of scientific research. This reference is devoted to theoretical and experimental studies of relativistic magnetrons and is written by a leading expert who worked directly on these systems.

CRC Press

June 2020: 234x156: 374pp

Hb: 978-1-138-59532-3: **£190.00**

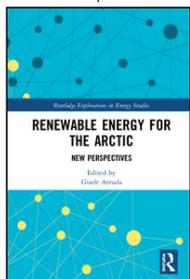
Pb: 978-0-367-57111-5: **£41.99**

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## Renewable Energy for the Arctic

New Perspectives



Edited by Gisele Arruda

Series: *Routledge Explorations in Energy Studies*

This book explores various facets of the transition to renewable energy in the Arctic region. It critically examines the adverse effects of fossil fuel extraction and use, environmental and social impacts of climate change, and the possibility of a low carbon energy system. With a focus on specific case studies that represent the most relevant energy projects in the region, this book will be of great interest to students and scholars of energy policy and transitions, climate change, and sustainable development.

Routledge

Market: Environment and Sustainability

March 2020: 234x156: 230pp

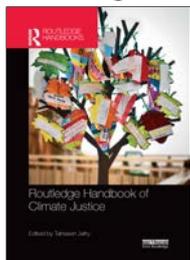
Hb: 978-0-815-38732-9: **£120.00**

Pb: 978-0-367-51173-9: **£36.99**

eBook: 978-1-351-17332-2

\* For full contents and more information, visit: [www.routledge.com/9780367511739](http://www.routledge.com/9780367511739)

## Routledge Handbook of Climate Justice



Edited by Tahseen Jafry

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. This book will be essential reading for students and scholars, as well as being a vital reference tool for those practically engaged in the field.

Routledge

December 2020: 246x174: 566pp

Hb: 978-1-138-68935-0: **£190.00**

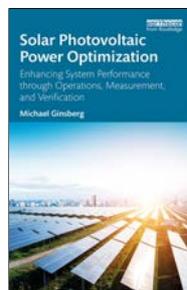
Pb: 978-0-367-73259-2: **£39.99**

eBook: 978-1-315-53768-9

\* For full contents and more information, visit: [www.routledge.com/9780367732592](http://www.routledge.com/9780367732592)

## Solar Photovoltaic Power Optimization

Enhancing System Performance through Operations, Measurement, and Verification



Michael Ginsberg

Drawing on global case studies, this book details how to achieve optimal PV power output in the field through an overview of basic electrical systems, the solar PV module and balance of system, and processes and software for monitoring, measurement and verification. It also provides an overview of the North American Board of Certified Energy Practitioner's (NABCEP) new PV System Inspector credential, which will be outlined in the final chapter. Equipping the reader with the knowledge and confidence required to maximize the output of solar PV installations, *Solar Photovoltaics Power Optimization* will be an essential resource for PV practitioners and students.

Routledge

Market: Energy/Solar Photovoltaics

October 2019: 216x138: 160pp

Hb: 978-0-815-39859-2: **£110.00**

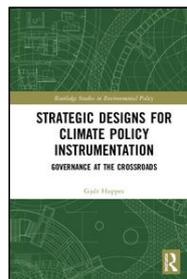
Pb: 978-0-815-39867-7: **£23.99**

eBook: 978-1-351-17204-2

\* For full contents and more information, visit: [www.routledge.com/9780815398677](http://www.routledge.com/9780815398677)

## Strategic Designs for Climate Policy Instrumentation

Governance at the Crossroads



Gjal Huppes

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

June 2020: 234x156: 234pp

Hb: 978-1-138-69630-3: **£120.00**

Pb: 978-0-367-58465-8: **£36.99**

eBook: 978-1-315-52481-8

\* For full contents and more information, visit: [www.routledge.com/9780367584658](http://www.routledge.com/9780367584658)

## Subsurface Upgrading of Heavy Crude Oils and Bitumen



Cesar Ovalles, Chevron Energy Technology Center (ETC), Richmond, California, USA

Heavy crude oils and bitumen represent more than 50% of all hydrocarbons available on the planet. These feedstocks have a low amount of distillable material and high level of contaminants that makes their production, transportation, and refining difficult and costly by conventional technologies. Subsurface upgrading of heavy crude oils and bitumen is of interest to the petroleum industry mainly because of the advantages compared to aboveground counterparts. This book presents an "in depth" account and a critical review of the progress of industry and academia in the area of subsurface upgrading of heavy, extra-heavy oils and bitumen, as reported in the patent and open literature.

CRC Press

Market: Engineering - Chemical

August 2019: 254 x 178: 324pp

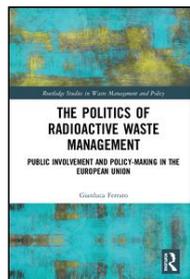
Hb: 978-1-138-74444-8: **£150.00**

eBook: 978-1-315-18102-8

\* For full contents and more information, visit: [www.crcpress.com/9781138744448](http://www.crcpress.com/9781138744448)

## The Politics of Radioactive Waste Management

Public Involvement and Policy-Making in the European Union



Gianluca Ferraro

Drawing upon sources including EURATOM and the OECD, the author offers a detailed overview of the current state of radioactive waste management (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

June 2020: 234x156: 194pp

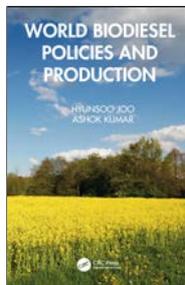
Hb: 978-1-138-21148-3: **£120.00**

Pb: 978-0-367-58334-7: **£36.99**

eBook: 978-1-315-45293-7

\* For full contents and more information, visit: [www.routledge.com/9780367583347](http://www.routledge.com/9780367583347)

## World Biodiesel Policies and Production



Edited by Hyunsoo Joo and Ashok Kumar, University of Toledo, United States

This book presents the evolution of biodiesel technologies integrated with government policies of major biodiesel producing countries with their backgrounds, impacts, changes and other energy forms. Biodiesel feedstock and biodiesel production technologies including green algae and methanol are presented in separate chapters. Changes in the feedstock types and the corresponding technologies are presented, and their impacts on the biodiesel policies are explained. The life cycle analysis (LCA) of biodiesel is presented and the findings are given for different feedstocks in terms of greenhouse gases, energy, and other impact categories, related to biodiesel policy,

research, and development.

CRC Press

Market: Energy & Clean Technology

August 2019: 235 x 156: 238pp

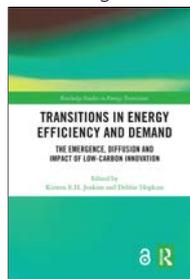
Hb: 978-0-367-24444-6: **£105.00**

eBook: 978-0-429-28288-1

\* For full contents and more information, visit: [www.crcpress.com/9780367244446](http://www.crcpress.com/9780367244446)

## Transitions in Energy Efficiency and Demand

The Emergence, Diffusion and Impact of Low-Carbon Innovation



Edited by Kirsten E.H. Jenkins and Debbie Hopkins

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.

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Routledge

September 2020: 234x156: 300pp

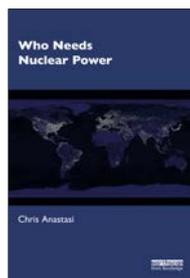
Hb: 978-0-815-35678-3: **£120.00**

Pb: 978-0-367-66328-5: **£36.99**

eBook: 978-1-351-12726-4

\* For full contents and more information, visit: [www.routledge.com/9780367663285](http://www.routledge.com/9780367663285)

## Who Needs Nuclear Power



Chris Anastasi, Anastasi London Ltd, UK

*Who Needs Nuclear Power* challenges conventional thinking about the role of civil nuclear power in a rapidly changing energy context where new energy carriers are penetrating markets around the world. Against the backdrop of a global energy transition and the defining issue of climate change, Chris Anastasi assesses new nuclear build in a fast-moving sector in which new technologies and practices are rapidly emerging. This book provides a balanced and holistic view of nuclear power for both an expert and non-expert audience, providing a realistic assessment of the potential for this technology over the critical period to 2050 and beyond.

Routledge

Market: Nuclear Power/Energy Studies

October 2020: 234x156: 174pp

Hb: 978-0-367-26692-9: **£120.00**

Pb: 978-0-367-26693-6: **£29.99**

eBook: 978-0-429-29465-5

\* For full contents and more information, visit: [www.routledge.com/9780367266936](http://www.routledge.com/9780367266936)

## Agent-Based Modeling of Environmental Conflict and Cooperation



Todd BenDor and Jürgen Scheffran

This book examines the recent development and use of computer modeling and simulation as an important tool for understanding environmental and resource-based conflicts and for finding pathways for conflict resolution and cooperation. It introduces a new, innovative technique for using agent-based modeling (ABM) as a tool for better understanding environmental conflicts and discusses the application of agent-based modeling for the analysis of multi-agent interaction and conflict and demonstrates the natural interdisciplinary convergence. The authors explore numerous examples of environmental and resource conflicts around the world, as well as cooperative approaches for conflict resolution.

CRC Press

June 2020: 254x178: 363pp

Hb: 978-1-138-47603-5: **£120.00**

Pb: 978-0-367-57082-8: **£41.99**

eBook: 978-1-351-10625-2

\* For full contents and more information, visit: [www.crcpress.com/9780367570828](http://www.crcpress.com/9780367570828)

## Batch Adsorption Process of Metals and Anions for Remediation of Contaminated Water

Edited by Deepak Gusain, Institute for Water and Wastewater Technology, Durban University of Technology, Republic of South Africa and Faizal Bux

Adsorption is one of the methods that is used for remediation of contaminated water. The experimental factors affecting the batch mode of adsorption of various metals and inorganic anions are discussed in this book. The elemental contaminants have been categorized into four major categories i.e. major toxic elements; essential elements having toxicity on excessive exposure; miscellaneous elements having undetermined effects; non-toxic elements having trivial or unidentified significance. In addition, anions like nitrate, perchlorate and sulphate as water contaminants are considered. This unique volume fills a niche in the area of water treatment.

CRC Press

Market: Chemistry

March 2021: 234x156: 296pp

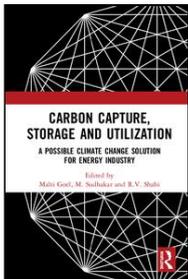
Hb: 978-0-367-43648-3: **£150.00**

eBook: 978-1-003-00636-7

\* For full contents and more information, visit: [www.crcpress.com/9780367436483](http://www.crcpress.com/9780367436483)

## Carbon Capture, Storage and Utilization

A Possible Climate Change Solution for Energy Industry



Edited by Malti Goel, M. Sudhakar and R.V. Shahi

Carbon capture and storage (CCS) is among the advanced energy technologies suggested to make the conventional fossil fuel sources environmentally sustainable. It is of particular importance to coal-based economies. This book deals at length with the various aspects of carbon dioxide capture, its utilization and takes a closer look at the earth processes in carbon dioxide storage.

Please note: This volume is Co-published with The Energy and Resources Institute Press, New Delhi. Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

CRC Press

Market: Environmental Science

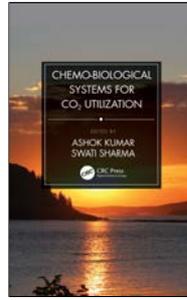
February 2019: 234x156: 304pp

Hb: 978-0-367-17908-3: **£120.00**

eBook: 978-0-429-05911-7

\* For full contents and more information, visit: [www.crcpress.com/9780367179083](http://www.crcpress.com/9780367179083)

## Chemo-Biological Systems for CO<sub>2</sub> Utilization



Edited by Ashok Kumar and Swati Sharma

Chemo-Biological Systems for CO<sub>2</sub> Utilization describes the most recent advanced tools and techniques for carbon dioxide capture and its utilization. It discusses and compares the advantages of different systems and aids researchers and industrialists in understanding energy generation in the form of biofuels, bioelectricity, or biogas using chemicals, nanomaterials, microbial, enzymatic and chemo-enzymatic integrated systems. It describes the importance and utilization of CO<sub>2</sub> in living systems, and provides an overview of the various fundamental methods, policies, and techniques involved in CO<sub>2</sub> conversion.

CRC Press

Market: Environmental Engineering

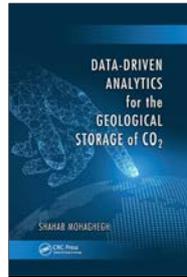
September 2020: 235 x 156: 318pp

Hb: 978-0-367-32193-2: **£115.00**

eBook: 978-0-429-31718-7

\* For full contents and more information, visit: [www.crcpress.com/9780367321932](http://www.crcpress.com/9780367321932)

## Data-Driven Analytics for the Geological Storage of CO<sub>2</sub>



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 CO<sub>2</sub> require development of numerical reservoir simulation models. The numerical models are used to understand the impact of injection of CO<sub>2</sub> in saline aquifers, depleted oil and gas reservoirs, as well as CO<sub>2</sub>-EOR projects. This book discusses application of data-driven analytics to geological storage of CO<sub>2</sub>. It explains the technology that allows for uncertainty quantification and optimization of CO<sub>2</sub> storage projects. It also deals with actual case studies from Australia and the United States.

CRC Press

December 2020: 234x156: 302pp

Hb: 978-1-138-19714-5: **£130.00**

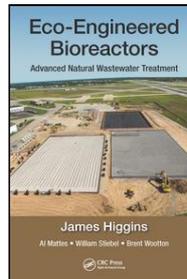
Pb: 978-0-367-73438-1: **£52.99**

eBook: 978-1-315-28081-3

\* For full contents and more information, visit: [www.crcpress.com/9780367734381](http://www.crcpress.com/9780367734381)

## Eco-Engineered Bioreactors

Advanced Natural Wastewater Treatment



James Higgins, Al Mattes, William Stiebel and Brent Wootton

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

June 2020: 234x156: 397pp

Hb: 978-1-138-05446-2: **£160.00**

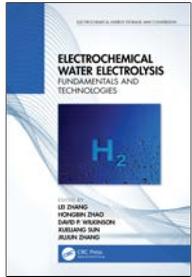
Pb: 978-0-367-57257-0: **£41.99**

eBook: 978-1-315-16681-0

\* For full contents and more information, visit: [www.crcpress.com/9780367572570](http://www.crcpress.com/9780367572570)

## Electrochemical Water Electrolysis

Fundamentals and Technologies



Edited by **Lei Zhang**, National Research Council, Canada, **Hongbin Zhao**, Shanghai University, **David P. Wilkinson**, Department of Chemical Engineering, University of British Columbia, Vancouver, **Xueliang Sun** and **Jiujun Zhang**

*Series: Electrochemical Energy Storage and Conversion*

The book comprehensively describes fundamentals and technologies of electrochemical water electrolysis as well as the associated latest materials and technology developments. It addresses a variety of topics such as electrochemical processes, materials, components, assembly and manufacturing, degradation mechanisms, as well as challenges and strategies.

With contributions from researchers at the top of their fields and on the cutting edge of technology, the book includes in-depth discussions covering engineering of components and applied devices making this an essential read for scientists and engineers working in related disciplines.

CRC Press

**Market:** Engineering - Chemical

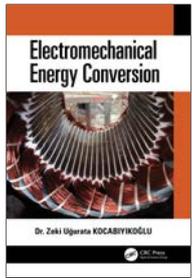
April 2020: 235 x 156: 254pp

Hb: 978-1-138-32932-4: **£140.00**

eBook: 978-0-429-44788-4

\* For full contents and more information, visit: [www.crcpress.com/9781138329324](http://www.crcpress.com/9781138329324)

## Electromechanical Energy Conversion



**Zeki Uğurata Kocabiyiçoğlu**, TOBB Economy and Technology University, Turkey.

This book is intended to be a text book on "Electromechanical Energy Conversion" for the undergraduates of electrical and electronic engineering students of universities and colleges. Therefore the level and amount of the knowledge to be transferred to the reader is kept as much as what can be transferred in one academic semester of a university or college. Although the subject is rather classical and somehow well established in some respects it is vast and can be difficult to grasp if went in to details. In this book it is aimed to be as short, lean and as easily understandable as possible with minimum of wording and maximum of drawings, figures and tables.

CRC Press

**Market:** Engineering-Electrical

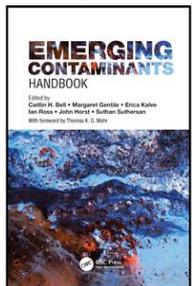
August 2020: 235 x 156: 296pp

Hb: 978-0-367-32267-0: **£85.00**

eBook: 978-0-429-31763-7

\* For full contents and more information, visit: [www.crcpress.com/9780367322670](http://www.crcpress.com/9780367322670)

## Emerging Contaminants Handbook



Edited by **Caitlin H. Bell**, Arcadis U.S., Inc. San Francisco, CA U.S.A., **Margaret Gentile**, Arcadis, U.S. Inc., San Francisco, CA U.S.A., **Erica Kalve**, Arcadis U.S., Inc. San Rafael, CA U.S.A., **Ian Ross**, **John Horst**, Arcadis, Harleysville, PA, USA and **Suthan Suthersan**, Arcadis, Yardley, PA, USA

Emerging contaminants are those for which the threats to human health and the environment are just becoming understood, those for which regulatory standards are pending or newly developed, or those which are currently being brought to light through new science around detection methods, exposure pathways, and treatment technologies. This book serves as a handbook for understanding the occurrence, behaviors, and treatment technologies of emerging

contaminants. Additionally, applicable groundwater, wastewater, and drinking water treatment technologies for emerging contaminants will be provided, as well as guidance for managing the risks of the uncertainties surrounding these contaminants.

CRC Press

**Market:** Environmental Science

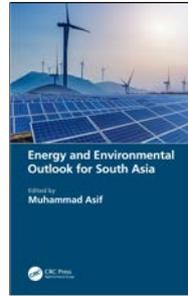
January 2019: 235 x 156: 469pp

Hb: 978-1-138-06294-8: **£140.00**

eBook: 978-1-315-16134-1

\* For full contents and more information, visit: [www.crcpress.com/9781138062948](http://www.crcpress.com/9781138062948)

## Energy and Environmental Outlook for South Asia



Edited by **Muhammad Asif**

South Asia constitutes a key geography in the world today considering its large population and related daunting energy and environmental challenges. Many countries in the region are faced with a growing gap between energy demand and local resources, resulting in an increased dependence on imports. According to the International Energy Agency (IEA), the energy demand in South Asia will grow at a rate more than double that of the world average in the coming decades. This book addresses the critical subject of energy and environmental outlook for South Asia and presents the wider challenges and the responses at the national and regional level.

CRC Press

**Market:** Environmental Engineering

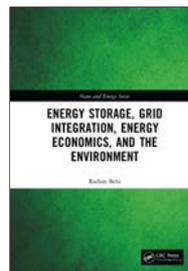
January 2021: 234x156: 282pp

Hb: 978-0-367-67343-7: **£90.00**

eBook: 978-1-003-13187-8

\* For full contents and more information, visit: [www.crcpress.com/9780367673437](http://www.crcpress.com/9780367673437)

## Energy Storage, Grid Integration, Energy Economics, and the Environment



**Radian Belu**, University of Alaska Anchorage, Alaska, USA

*Series: Nano and Energy*

The book will cover energy storage systems, bioenergy and hydrogen economy, grid integration of the renewable energy systems, distributed generation, economic analysis and environmental impacts of renewable energy systems. Solutions manual and Power Point slides are included for instructors.

CRC Press

**Market:** Electrical Engineering

September 2019: 254 x 178: 376pp

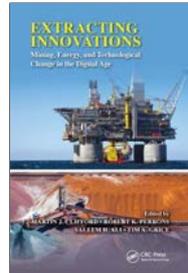
Hb: 978-0-367-26140-5: **£74.99**

eBook: 978-0-429-32243-3

\* For full contents and more information, visit: [www.crcpress.com/9780367261405](http://www.crcpress.com/9780367261405)

## Extracting Innovations

Mining, Energy, and Technological Change in the Digital Age



Edited by **Martin J. Clifford**, **Robert K. Perrons**, **Saleem H. Ali** and **Tim A. Grice**

The book focuses on affects of digital technology advances in the mining, oil, and gas sectors. It synthesizes a series of questions including: Why have these sectors been historically slow to innovate? What specific strategies can improve innovation and uptake of new technologies? What new forms of technology will shape the sector in the decades ahead? What impact will new technologies have on resource extraction and energy production? How are digital technologies changing the competitive landscape and industry architecture? How will new technologies impact sustainability of the sector and can technologies improve social performance and environmental

stewardship?

CRC Press

September 2020: 234x156: 399pp

Hb: 978-1-138-04082-3: **£140.00**

Pb: 978-0-367-65724-6: **£42.99**

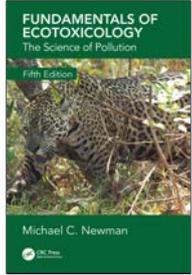
eBook: 978-1-315-09928-6

\* For full contents and more information, visit: [www.crcpress.com/9780367657246](http://www.crcpress.com/9780367657246)

5th Edition

**Fundamentals of Ecotoxicology**

The Science of Pollution



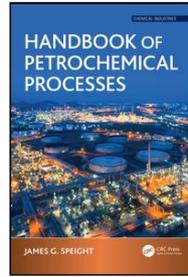
**Michael C. Newman**, College of William & Mary, Gloucester Point, Virginia, USA

This new edition is revised throughout, and adds a new chapter on natural resource damage assessment. It also adds more international coverage and case studies from around the world. Further, it addresses the latest emerging contaminants and issues, as well as new international rules and regulations. The text details key environmental contaminants, explores their fates in the biosphere, and discusses bioaccumulation and the effects of contaminants at increasing levels of ecological organization. Vignettes written by experts will illustrate key themes or highlight especially pertinent examples. It offers an instructors' manual, PowerPoint slides, supplemental images, and a solutions manual.

CRC Press

**Market:** Environmental Science  
December 2019: 254 x 178: 708pp  
Hb: 978-0-815-35402-4: **£100.00**  
eBook: 978-1-351-13399-9  
Prev. Ed Hb: 978-1-466-58229-3

\* For full contents and more information, visit: [www.crcpress.com/9780815354024](http://www.crcpress.com/9780815354024)

**Handbook of Petrochemical Processes**

**James G. Speight**, CD&W Inc., Laramie, Wyoming, USA

*Series: Chemical Industries*

The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers. The purpose of this book is not only to provide a follow-on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process. Following from the introductory chapters, this book will provide the readers with a valuable source of information containing insights into petrochemical reactions and products, process technology, and polymer

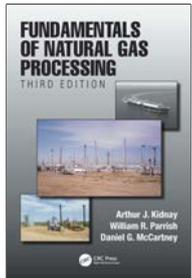
synthesis.

CRC Press

**Market:** Engineering - Chemical  
June 2019: 254 x 178: 580pp  
Hb: 978-1-498-72970-3: **£180.00**  
eBook: 978-0-429-15561-1

\* For full contents and more information, visit: [www.crcpress.com/9781498729703](http://www.crcpress.com/9781498729703)

3rd Edition

**Fundamentals of Natural Gas Processing**

**Arthur J. Kidnay**, Colorado School of Mines, Golden, USA, **William R. Parrish**, ConocoPhillips (Retired), Brigantine, New Jersey, USA and **Daniel G. McCartney**, Black & Veatch, Overland Park, Kansas, USA

Offering indispensable insight from experts in the field, this book provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products including LNG. The authors compile information from the literature, meeting proceedings, short courses, and their own work experiences to give an accurate picture of where gas processing technology stands today as well as to highlight relatively new technologies. Aimed at students as well as natural gas processing professionals, this

edition includes discussion questions and exercises designed to reinforce important concepts.

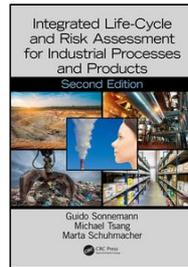
CRC Press

**Market:** Engineering - Chemical  
October 2019: 254 x 178: 498pp  
Hb: 978-1-138-61279-2: **£104.00**  
eBook: 978-0-429-46494-2  
Prev. Ed Hb: 978-1-420-08519-8

\* For full contents and more information, visit: [www.crcpress.com/9781138612792](http://www.crcpress.com/9781138612792)



2nd Edition

**Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products**

Edited by **Guido Sonnemann**, **Michael Tsang** and **Marta Schuhmacher**

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.

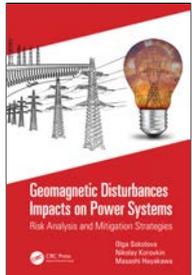
CRC Press

June 2020: 254x178: 433pp  
Hb: 978-1-498-78069-8: **£160.00**  
Pb: 978-0-367-57088-0: **£41.99**  
eBook: 978-0-429-43694-9

\* For full contents and more information, visit: [www.crcpress.com/9780367570880](http://www.crcpress.com/9780367570880)

**Geomagnetic Disturbances Impacts on Power Systems**

Risk Analysis and Mitigation Strategies



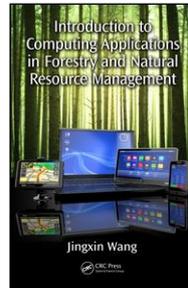
**Olga Sokolova**, **Nikolay Korovkin**, Peter the Great Saint Petersburg Polytechnic University, Russia. and **Masashi Hayakawa**, University of Electro-Communications, Japan.

This book provides an insight into the GMD as a natural hazard and to perform the risk assessment of its potential impacts on the power systems as critical infrastructures. The reaction of power systems to GMDs and mitigation strategies aiming at reducing and controlling the risks are also addressed. The GMD mitigation strategies, the power systems critical factors analysis, the high-risk zones identification and an estimation of economic loss are also brought to the attention of the reader. Risk engineers, policy-makers, technical experts and non-specialists such as power system operators will find this book useful.

CRC Press

**Market:** Electrical Engineering  
March 2021: 234x156: 272pp  
Hb: 978-0-367-68086-2: **£130.00**  
eBook: 978-1-003-13415-2

\* For full contents and more information, visit: [www.crcpress.com/9780367680862](http://www.crcpress.com/9780367680862)

**Introduction to Computing Applications in Forestry and Natural Resource Management**

**Jingxin Wang**

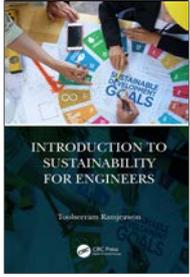
Due to the complexity of operational forestry problems, computing applications are becoming pervasive in all aspects of forest and natural resource management. This book provides a comprehensive introduction to computers and their applications in forest and natural resource management and is designed for both undergraduate and graduate students in forestry and natural resources. It introduces state-of-the-art applications for several of the most important computer technologies in terms of data acquisition, data manipulation, basic programming techniques, and other related computer and Internet concepts and applications. This book consists of six parts and 19 chapters.

CRC Press

June 2020: 234x156: 398pp  
Hb: 978-1-138-62630-0: **£110.00**  
Pb: 978-0-367-57308-9: **£41.99**  
eBook: 978-1-315-22617-0

\* For full contents and more information, visit: [www.crcpress.com/9780367573089](http://www.crcpress.com/9780367573089)

## Introduction to Sustainability for Engineers



**Toolseeram Ramjeawon**, Faculty of Engineering, University of Mauritius, Reduit, Mauritius

This book aims to incorporate sustainability into curricula for undergraduate engineering students. The book starts with an introduction to the concept of sustainability, outlining core principles for sustainable development to guide engineering practice and decision making, including key tools aimed at enabling, measuring and communicating sustainability. It also describes concepts as life cycle analysis, environmental economics, related institutional architecture and policy framework, business context of sustainability, and sustainable architecture. Appendices at the end of the book presents a summary of key concepts, strategies and tools introduced in the

main text.

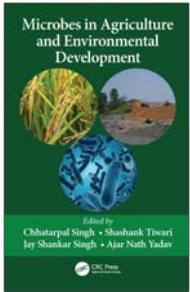
CRC Press

**Market:** Engineering - General  
February 2020: 235 x 156: 392pp  
Hb: 978-0-367-25445-2: **£88.99**  
eBook: 978-0-429-28785-5

\* For full contents and more information, visit: [www.crcpress.com/9780367254452](http://www.crcpress.com/9780367254452)



## Microbes in Agriculture and Environmental Development



Edited by **Chhatarpal Singh**, Agro Environmental Development Society, India, **Shashank Tiwari**, B.B. Ambedkar (A Central University) University, Lucknow, INDIA, **Jay Shankar Singh**, B.B. Ambedkar (A Central University) University, Lucknow, INDIA and **Ajar Nath Yadav**, Eternal University, Baru Sahib, Sirmour, Himachal Pradesh, India

The proposed edited book explores the applications of microbes for the improvement of environmental quality and agricultural productivity through microbial inoculants and enzymes, useful for the conservation and restoration of degraded agro and natural ecosystems, crop yield extension, soil health improvement and so forth. It discusses wastewater treatment and recycling of agricultural and industrial wastes as effective

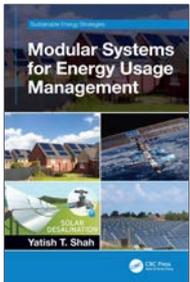
uses of microbial technology. It provides detailed impressions of recent trends in microbial application in plant growth promotion, soil fertility, microbial biomass and diversity and sustainable environment through bioremediation and biosorption processes.

CRC Press

**Market:** Remediation  
October 2020: 235 x 156: 318pp  
Hb: 978-0-367-52413-5: **£115.00**  
eBook: 978-1-003-05781-9

\* For full contents and more information, visit: [www.crcpress.com/9780367524135](http://www.crcpress.com/9780367524135)

## Modular Systems for Energy Usage Management



**Yatish T. Shah**, Norfolk State University, Virginia, USA

*Series: Sustainable Energy Strategies*

This book examines the role of the modular approach for the back end of the energy industry—energy usage management. It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency, which are the precludes to the prudent use of energy.

Aimed at industry professionals and researchers involved in the energy industry, the book illustrates in detail how modular approach can facilitate management of energy usage with the help of concrete industrial examples.

CRC Press

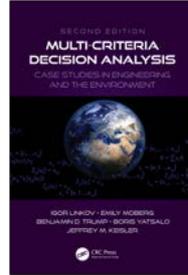
**Market:** Energy Engineering  
February 2020: 235 x 156: 597pp  
Hb: 978-0-367-40796-4: **£130.00**  
eBook: 978-0-367-82239-2

\* For full contents and more information, visit: [www.crcpress.com/9780367407964](http://www.crcpress.com/9780367407964)

2nd Edition

## Multi-Criteria Decision Analysis

Case Studies in Engineering and the Environment



**Igor Linkov**, US Army Engineer Research and Development, Brookline, Massachusetts, USA, **Emily Moberg**, Massachusetts Institute of Technology, USA, **Benjamin D. Trump**, **Boris Yatsalo** and **Jeffrey M. Keisler**

*Series: Environmental Assessment and Management*

Decision Analysis has become more widely recognized as an important process for translating science into management action. With climate change as a driving force in creating environmental problems, there is a great need for understanding decision making framework through a case-study based approach. This thoroughly updated second edition provides seven additional new case studies focused on sustainability. The

breadth of the applications using MCDA methodologies combined with corresponding decision models implemented using DECERNS software package, this book is a great resource for professionals and students in learning and applying similar frameworks to other environmental projects.

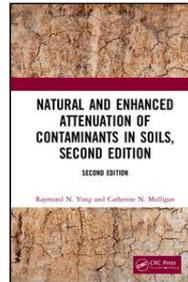
CRC Press

**Market:** Environmental Science  
September 2020: 235 x 156: 420pp  
Hb: 978-0-367-34533-4: **£115.00**  
eBook: 978-0-429-32644-8  
Prev. Ed Hb: 978-1-439-85318-4

\* For full contents and more information, visit: [www.crcpress.com/9780367345334](http://www.crcpress.com/9780367345334)

2nd Edition

## Natural and Enhanced Attenuation of Contaminants in Soils



**Raymond N. Yong**, McGill University, Montreal, Quebec, Canada and **Catherine N. Mulligan**, Concordia University, Montreal, Quebec, Canada

Natural attenuation has become an effective and low-cost alternative to more expensive engineered remediation. This new edition updates the principles and fundamentals of natural attenuation of contaminants with a broader view of the field. It includes new methods for evaluating natural attenuation mechanisms and microbial activity at the lab and field scales. Case studies, actual treatments and protocols, theoretical processes, case studies, numerical models, and legal aspects in the natural attenuation of organic and inorganic contaminants are examined. Challenges and future directions for the

implementation of natural attenuation and enhanced remediation techniques are also considered.

CRC Press

**Market:** Engineering - Environmental  
April 2019: 235 x 156: 324pp  
Hb: 978-1-138-06637-3: **£120.00**  
eBook: 978-1-315-15919-5

\* For full contents and more information, visit: [www.crcpress.com/9781138066373](http://www.crcpress.com/9781138066373)

## Power and Distribution Transformers

Practical Design Guide

**K.R.M. Nair**, Federal Transformers Co., UAE.

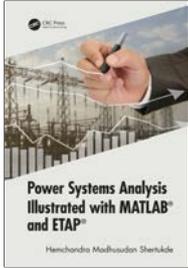
This book gives "step by step" procedures of designing a transformer. Engineers without prior knowledge or exposure to design can follow the procedures and calculation methods to acquire reasonable proficiency of designing a transformer. It can also function as a useful guide for the practicing engineers to undertake new designs, cost optimization, design automation etc., without the need for external help or consultancy. It is based on the 50+ years experience of the author in the Power and Distribution Transformer industry. In addition to the Transformer industry, the book is useful to the Power Utility Engineers, Consultants, Research Scholars and Teaching faculty.

CRC Press

**Market:** Engineering - Electrical  
February 2021: 254 x 178: 510pp  
Hb: 978-0-367-53593-3: **£130.00**  
eBook: 978-1-003-08857-8

\* For full contents and more information, visit: [www.crcpress.com/9780367535933](http://www.crcpress.com/9780367535933)

## Power Systems Analysis Illustrated with MATLAB and ETAP



Hemchandra Madhusudan Shertukde, University of Hartford, Connecticut, USA

Electrical power is harnessed using several energy sources, including: coal, hydel, nuclear, solar, and wind. Generated power is needed to be transferred over long distances to support load requirements of customers viz: residential, industrial, and commercial. This necessitates proper design and analysis of Power Systems to efficiently control the power flow from one point to the other without delay, disturbance, or interference. Ideal for utility and power system designer professionals and students, this book is richly illustrated with MATLAB and etap (Electrical Transient Analysis Program) to succinctly illustrate

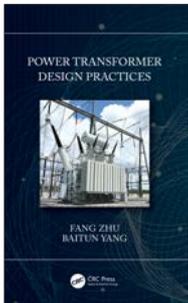
concepts throughout, and includes examples, case studies, and problems.

CRC Press

**Market:** Engineering - Electrical  
January 2019: 254 x 178: 304pp  
Hb: 978-1-498-79721-4: **£120.00**  
eBook: 978-0-429-43692-5

\* For full contents and more information, visit: [www.crcpress.com/9781498797214](http://www.crcpress.com/9781498797214)

## Power Transformer Design Practices



Fang Zhu, R. E. Uptegraff, USA. and Baitun Yang, R. E. Uptegraff, USA.

The book presents basic theories of transformer operation, design principles and methods used in power transformer designing work, and also includes limitation criteria, effective utilization of material and calculation examples to enhance reader's techniques of transformer design and testing. The ways to optimize design is also discussed throughout the book as a goal to achieve best performances on economic design. The book is a great reference material for engineers, students, teachers, researchers and anyone involved in the field associated with power transformer design, manufacture, testing, application and service maintenance.

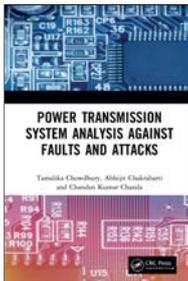
CRC Press

**Market:** Electrical Engineering  
March 2021: 234x156: 328pp  
Hb: 978-0-367-41843-4: **£99.99**  
eBook: 978-0-367-81686-5

\* For full contents and more information, visit: [www.crcpress.com/9780367418434](http://www.crcpress.com/9780367418434)



## Power Transmission System Analysis Against Faults and Attacks



Tamalika Chowdhury, Jain College of Engineering, Belagavi, Karnataka, India, Abhijit Chakrabarti, Jadavpur University, Kolkata, India and Indian Institute of Engineering Science and Technology, Shibpur and Chandan Kumar Chanda, IIST, Shibpur, Kolkata, India

This book deals with the methods of assessment of the grid network vulnerability and addresses the grid collapse problem due to cascaded failures of the transmission network following an attack or an unplanned contingency. It discusses basic mitigation aspects for the network and immunity of such a power transmission network.

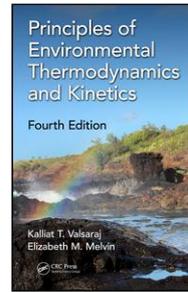
CRC Press

**Market:** Power Engineering  
March 2021: 234x156: 230pp  
Hb: 978-0-367-49777-4: **£89.99**  
eBook: 978-1-003-04733-9

\* For full contents and more information, visit: [www.crcpress.com/9780367497774](http://www.crcpress.com/9780367497774)

4th Edition

## Principles of Environmental Thermodynamics and Kinetics



Kalliat T. Valsaraj and Elizabeth M. Melvin

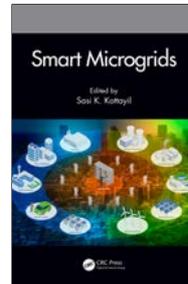
This book is about applications of chemical thermodynamics and kinetics to various environmental problems related to air, water, soil, and biota. The new edition contains substantial updates and a new table of contents. The applications are new and extended to include current events in environmentally-based challenges. Demonstrates the theoretical foundations of chemical property estimations for environmental process modeling. Provides a thorough understanding of applications and limitations of various property correlations. It adopts a multimedia approach to fate and transport modeling and pollution control design options. Includes numerous worked-out examples and hundreds of problems.

CRC Press

June 2020: 234x156: 496pp  
Hb: 978-1-498-73363-2: **£120.00**  
Pb: 978-0-367-57205-1: **£41.99**  
eBook: 978-0-429-49183-2

\* For full contents and more information, visit: [www.crcpress.com/9780367572051](http://www.crcpress.com/9780367572051)

## Smart Microgrids



Edited by Sasi K. Kottayil, Amrita Vishwa Vidyapeetham, Coimbatore

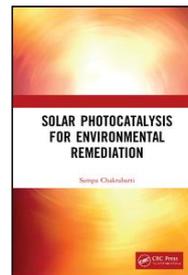
This book addresses the need to understand the development, use, construction and operation of Smart Micro Grids (SMG). Covering selected major operations of SMG like dynamic energy management, demand response, demand dispatch, etc., it covers design and operational challenges of different microgrids with providing feasible solutions for system. A communication architecture facilitating bi-directional communication for smart distribution/micro grid is brought out covering its design, development and validation aspects.

CRC Press

**Market:** Power Engineering  
August 2020: 235 x 156: 310pp  
Hb: 978-0-367-34362-0: **£105.00**  
eBook: 978-0-429-32527-4

\* For full contents and more information, visit: [www.crcpress.com/9780367343620](http://www.crcpress.com/9780367343620)

## Solar Photocatalysis for Environmental Remediation



Sampa Chakrabarti

The book presents a review of research and pilot-scale efforts undertaken by scientists all over the world towards utilization of solar energy for environmental remediation. It gives a complete account of the solar photocatalytic degradation of pollutants present in wastewater and atmosphere and also discusses the solid-phase photocatalytic degradation of plastics in the form of composite.

Please note: This volume is Co-published with The Energy and Resources Institute Press, New Delhi. Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

CRC Press

**Market:** Environmental Science  
January 2019: 234x156: 174pp  
Hb: 978-0-367-17897-0: **£120.00**  
eBook: 978-0-429-05836-3

\* For full contents and more information, visit: [www.crcpress.com/9780367178970](http://www.crcpress.com/9780367178970)

## Sustainability of Business in the Context of Environmental Management



**Kamlesh Pritwani**

This book studies the newly emerged concept of 'sustainable business' in view of the growing Indian economy. It explores the current CSR practices adopted with reference to environmental management in Indian companies. It explores the forces driving the changing relationship between business and society and corporate leadership reacting to environmental challenges. Finally, the book restates the concept of increasing profitability through societal development.

Please note: This volume is Co-published with The Energy and Resources Institute Press, New Delhi. Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

CRC Press

**Market:** Environmental Science

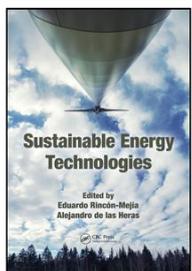
May 2019: 234x156: 338pp

Hb: 978-0-367-17902-1: **£120.00**

eBook: 978-0-429-05838-7

\* For full contents and more information, visit: [www.crcpress.com/9780367179021](http://www.crcpress.com/9780367179021)

## Sustainable Energy Technologies



Edited by **Eduardo Rincón-Mejía** and **Alejandro de las Heras**

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

June 2020: 254 x 178: 425pp

Hb: 978-1-138-03438-9: **£160.00**

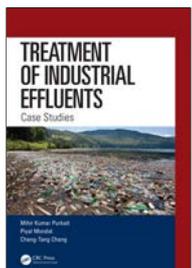
Pb: 978-0-367-57267-9: **£41.99**

eBook: 978-1-315-26997-9

\* For full contents and more information, visit: [www.crcpress.com/9780367572679](http://www.crcpress.com/9780367572679)

## Treatment of Industrial Effluents

Case Studies



Edited by **Mihir Kumar Purkait**, Chemical Engineering Department, Indian Institute of Technology, Guwahati, India, **Piyal Mondal**, Chemical Engineering Department, Indian Institute of Technology, Guwahati, India and **Chang-Tang Chang**, Department of Environmental Engineering, National Ilan University, Taiwan

The book explains various industrial effluent treatment technologies from a practical point of view. Characterization, environmental and health effects and treatment of various industrial effluents are discussed with case studies. Limitations, challenges and remedial actions to be taken are included at the end of each chapter.

CRC Press

**Market:** Environmental Engineering

September 2019: 254 x 178: 364pp

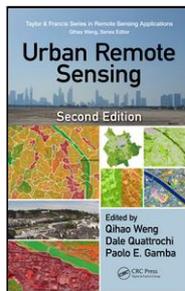
Hb: 978-1-138-39341-7: **£160.00**

eBook: 978-0-429-40176-3

\* For full contents and more information, visit: [www.crcpress.com/9781138393417](http://www.crcpress.com/9781138393417)

2nd Edition

## Urban Remote Sensing



Edited by **Qihao Weng**, **Dale Quattrochi** and **Paolo Gamba**

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

June 2020: 234x156: 337pp

Hb: 978-1-138-05460-8: **£150.00**

Pb: 978-0-367-57204-4: **£41.99**

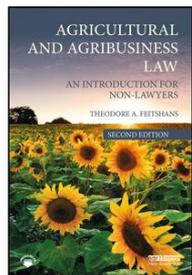
eBook: 978-1-138-58664-2

\* For full contents and more information, visit: [www.crcpress.com/9780367572044](http://www.crcpress.com/9780367572044)

2nd Edition

**Agricultural and Agribusiness Law**

An Introduction for Non-Lawyers



Theodore A. Feitshans, North Carolina State University, USA

This introductory textbook provides an overview of the concepts necessary for an understanding of agricultural and agribusiness law. The text will help students of land-based industries with little or no legal background to appreciate and identify issues that may require referral or consultation with legal counsel. This new edition is full revised and updated, particularly addressing developments in taxation and trade, and includes a new chapter on criminal law, an area of increasing relevance to agriculture.

Routledge

**Market:** Law / Agriculture

March 2019: 234x156: 346pp

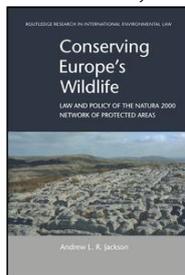
Hb: 978-1-138-60603-6: **£115.00**Pb: 978-1-138-60610-4: **£42.99**

eBook: 978-0-429-46783-7

Prev. Ed Pb: 978-1-138-83879-6

\* For full contents and more information, visit: [www.routledge.com/9781138606104](http://www.routledge.com/9781138606104)**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

July 2020: 234x156: 328pp

Hb: 978-1-138-20365-5: **£120.00**Pb: 978-0-367-50854-8: **£36.99**

eBook: 978-1-315-47121-1

\* For full contents and more information, visit: [www.routledge.com/9780367508548](http://www.routledge.com/9780367508548)**Climate Change Law in China in Global Context**

Edited by Xiangbai He, Hao Zhang and Alexander Zahar, Macquarie University, Australia

*Series: Routledge Advances in Climate Change Research*

In this book climate change law scholars explain how China's legal system is gradually being mobilized to support the reduction of greenhouse gas emissions in China and achieve adaptation to climate change. This volume addresses focuses on recent attempts by the country to build defences against the impacts of climate change. It sheds light on China's current laws, laws in preparation, the changing standing of law relative to policy, and the further reforms that will be necessary in response to the 2015 Paris Agreement on Climate Change. This will be an important resource for scholars of international law,

environmental law, and Chinese law.

Routledge

**Market:** Environment/Climate Change

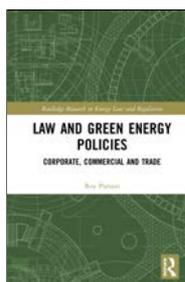
July 2020: 234x156: 236pp

Hb: 978-1-138-74253-6: **£120.00**

eBook: 978-1-315-18220-9

\* For full contents and more information, visit: [www.routledge.com/9781138742536](http://www.routledge.com/9781138742536)**Coordinating Public and Private Sustainability**

Green Energy Policy, International Trade Law, and Economic Mechanisms



Roy Partain

*Series: Routledge Research in Energy Law and Regulation*

This book demonstrates the need to coordinate private and corporate actors with national and global sustainable climate policies, with conventions in the spheres of green energy laws, as well as from the spheres of commercial, trade, and other private law. The book will be of interest to students and scholars in the fields of energy law, environmental law, and corporate law.

Routledge

December 2019: 234x156: 160pp

Hb: 978-1-138-55529-7: **£120.00**

eBook: 978-1-315-14941-7

\* For full contents and more information, visit: [www.routledge.com/9781138555297](http://www.routledge.com/9781138555297)**Collaborative Environmental Governance Frameworks**

A Practical Guide



Timothy M. Gieseke

This book takes a practical approach to understanding and describing collaborative governance for resolving environmental problems. It introduces a new collaborative governance assessment model and recognizes that collaborations are a natural result of organizations converging around complex issues. Rather than identifying actors by their type of organization, the actors are identified by the type of role they play. This approach is aligned with how individuals and organizations interact in practice, and their dependence on collaborations to solve emerging environmental problems. The book discusses real cases with governance issues and creates new frameworks for collaborations.

CRC Press

**Market:** Environmental Science

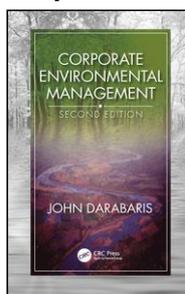
August 2019: 235 x 156: 210pp

Hb: 978-0-367-34318-7: **£115.00**Pb: 978-1-138-58450-1: **£62.99**

eBook: 978-0-429-50597-3

\* For full contents and more information, visit: [www.crcpress.com/9781138584501](http://www.crcpress.com/9781138584501)

2nd Edition

**Corporate Environmental Management**

John Darabaris, Denver Federal Center, Colorado, USA

This book provides environmental industry executives, the investment community, and students a basis for measuring corporate environmental activities and standing. It offers a comprehensive understanding of the technical, cost, and regulatory issues that environmental managers face. Sustainable Development, Conservation Environmental Science, and Emissions Trading are examined, as well as issues such as RCRA and CERCLA hazardous and chemical waste management. This new edition is updated throughout and adds a chapter on the newer global environmental guidelines and regulations (Paris Climate Agreement, North American Free Trade Agreement (NAFTA), Trans-Pacific Partnerships (TPP).

CRC Press

**Market:** Environmental Science

June 2019: 235 x 156: 228pp

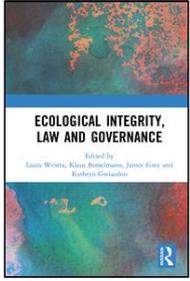
Hb: 978-0-367-13935-3: **£99.99**

eBook: 978-0-429-02926-4

Prev. Ed Hb: 978-1-420-05546-7

\* For full contents and more information, visit: [www.crcpress.com/9780367139353](http://www.crcpress.com/9780367139353)

## Ecological Integrity, Law and Governance



Edited by **Laura Westra**, University of Windsor, Canada and University of Milano-Bicocca, Italy, **Klaus Bosselmann**, **Janice Gray**, University of New South Wales, Australia and **Kathryn Gwiazdon**, Center for Environmental Ethics and Law, USA

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

July 2020: 234x156: 260pp

Hb: 978-0-815-39463-1: **£120.00**

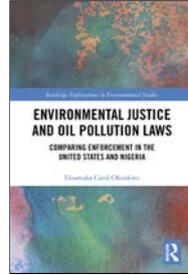
Pb: 978-0-367-51090-9: **£36.99**

eBook: 978-1-351-18547-9

\* For full contents and more information, visit: [www.routledge.com/9780367510909](http://www.routledge.com/9780367510909)

## Environmental Justice and Oil Pollution Laws

Comparing Enforcement in the United States and Nigeria



**Eloamaka Carol Okonkwo**

*Series: Routledge Explorations in Environmental Studies*

This book explores the relationship between oil pollution laws and environmental justice by comparing and contrasting the United States and Nigeria. Using Nigeria as a case study and drawing on examples from the United States, it examines the legal and institutional challenges impacting on the effective enforcement of laws and provides a contrasting view of developed and developing countries. This book will be of great interest to students and scholars of environmental law, environmental justice, minorities rights, business and human rights, energy law, and natural resource governance.

Routledge

**Market:** Environmental Law / Environmental Justice

February 2020: 234x156: 310pp

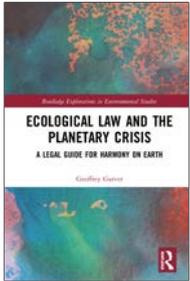
Hb: 978-0-367-22136-2: **£120.00**

eBook: 978-0-429-27343-8

\* For full contents and more information, visit: [www.routledge.com/9780367221362](http://www.routledge.com/9780367221362)

## Ecological Law and the Planetary Crisis

A Legal Guide for Harmony on Earth



**Geoffrey Garver**

*Series: Routledge Explorations in Environmental Studies*

This book uses a transdisciplinary systems approach to examine how Earth's human-caused ecological crisis arose and presents a new legal approach for overcoming it. Geoffrey Garver proposes ecological law—law that maintains human activity within ecological limits such as planetary boundaries while ensuring social justice and equity—as an essential element of an urgently needed radical pathway of change toward a perpetual, mutually enhancing human-Earth relationship. Increasing the visibility, clarity and development of ecological law, this book will be of great interest to students and scholars of ecological and environmental law and governance.

Routledge

**Market:** Environmental Law/Ecology

October 2020: 234x156: 266pp

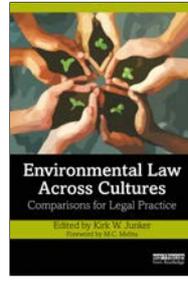
Hb: 978-0-367-89451-1: **£120.00**

eBook: 978-1-003-01925-1

\* For full contents and more information, visit: [www.routledge.com/9780367894511](http://www.routledge.com/9780367894511)

## Environmental Law Across Cultures

Comparisons for Legal Practice



Edited by **Kirk W. Junker**, University of Cologne, Germany

This book provides a practical, functional comparison among various institutions, tools, implementation practices and norms in environmental law across legal cultures. The book is aimed at advanced undergraduate and postgraduate students of environmental law as well as researchers and practitioners.

Routledge

**Market:** Environmental Law / Environment & Sustainability

December 2019: 234x156: 298pp

Hb: 978-0-367-02825-1: **£120.00**

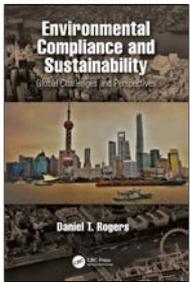
Pb: 978-0-367-02826-8: **£34.99**

eBook: 978-0-429-39761-5

\* For full contents and more information, visit: [www.routledge.com/9780367028268](http://www.routledge.com/9780367028268)

## Environmental Compliance and Sustainability

Global Challenges and Perspectives



**Daniel T. Rogers**

This book provides a critical understanding of the challenges that exist in protecting the local and global environment through compliance efforts using existing environmental regulations. The best compliance measures from over 50 countries are surveyed and are combined with science-based quantitative analysis of geology, hydrogeology, and the chemistry of contaminants from anthropogenic sources. The results are presented as a model that establishes a means by which protection of the environment can be greatly improved. This is accomplished through a deeper understanding of our natural world and how anthropogenic activities and their management affect our planet.

CRC Press

**Market:** Environmental Science

November 2019: 254 x 178: 548pp

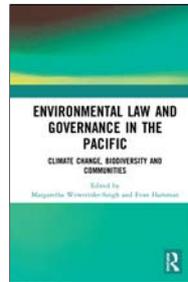
Hb: 978-0-367-00230-5: **£120.00**

eBook: 978-0-429-40066-7

\* For full contents and more information, visit: [www.crcpress.com/9780367002305](http://www.crcpress.com/9780367002305)

## Environmental Law and Governance in the Pacific

Climate Change, Biodiversity and Communities



Edited by **Margaretha Wewerinke-Singh** and **Evan Hamman**, Queensland University of Technology, Australia

This volume examines environmental law and governance in the Pacific, focussing on the emerging challenges this region faces. Fourteen Pacific Island countries, including the Cook Islands, Fiji, Papua New Guinea, Solomon Islands, Vanuatu and Samoa, and a broad range of themes, such as deep-sea mining, fisheries, protected areas, heritage, endangered species, human rights and access to justice, are addressed in the volume, thus providing a truly comprehensive and state of the art overview of environmental law and governance within specific jurisdictions as well as across the Pacific region as a whole.

Routledge

**Market:** Environmental Law / Environmental Governance

August 2020: 234x156: 328pp

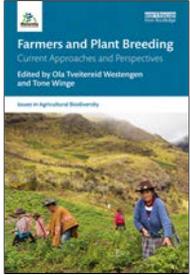
Hb: 978-0-367-20324-5: **£120.00**

eBook: 978-0-429-26089-6

\* For full contents and more information, visit: [www.routledge.com/9780367203245](http://www.routledge.com/9780367203245)

## Farmers and Plant Breeding

Current Approaches and Perspectives



Edited by **Ola Tveitereid Westengen**, Norwegian University of Life Sciences, Norway and **Tone Winge**, Fridtjof Nansen Institute, Norway

*Series: Issues in Agricultural Biodiversity*

This book presents the history of, and current approaches to, farmer-breeder collaboration in plant breeding, situating this work in the context of sustainable food systems, as well as national and international policy and law regimes. Relevant to a wide audience, including practitioners with experience in plant breeding and management of crop genetic resources and those with a broader interest in agriculture and development, as well as students of international cooperation and development, this

volume is a timely addition to the literature.

Routledge

**Market:** Environment & Sustainability / Law / Agriculture

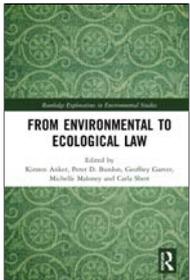
October 2019: 234x156: 354pp

Hb: 978-1-138-58042-8: **£120.00**

eBook: 978-0-429-50733-5

\* For full contents and more information, visit: [www.routledge.com/9781138580428](http://www.routledge.com/9781138580428)

## From Environmental to Ecological Law



Edited by **Kirsten Anker**, Peter D. Burdon, University of Adelaide, Australia, **Geoffrey Garver**, **Michelle Maloney** and **Carla Sbert**

*Series: Routledge Explorations in Environmental Studies*

From Environmental to Ecological Law increases the visibility, clarity and understanding of ecological law. Ecological law is emerging as a field of law founded on systems thinking and the need to integrate ecological limits, such as planetary boundaries, into law.

Drawing on a diverse range of case study examples including indigenous law, ecological restoration and mining, this volume will be of great interest to students, scholars and policy makers

of environmental and ecological law and governance, politics science, environmental ethics and ecological and degrowth economics.

Routledge

**Market:** environmental law/ecology/environmental studies

December 2020: 234x156: 284pp

Hb: 978-0-367-43108-2: **£120.00**

eBook: 978-1-003-00125-6

\* For full contents and more information, visit: [www.routledge.com/9780367431082](http://www.routledge.com/9780367431082)

## International Environmental Law Compliance in Context

Mechanisms and Case Studies

**Belen Olmos Giupponi**

*Series: Routledge Research in International Environmental Law*

This book explores how compliance with international environmental law has changed over time, offering a critical analysis of its current shifting patterns. Throughout the book, topics are illustrated with extracts from specific international environmental law jurisprudence and relevant international environmental law instruments. The book offers a comprehensive analysis of compliance with international environmental law, providing original insights and following a clear and systematic structure supported by reference to the sources. This book will be of interest to professionals, academics and students working in the field of compliance with international environmental law.

Routledge

**Market:** Environment, Sustainability

April 2021: 234x156: 256pp

Hb: 978-1-138-49184-7: **£120.00**

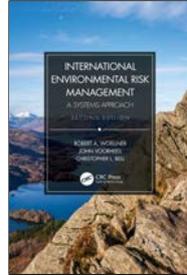
eBook: 978-1-351-03194-3

\* For full contents and more information, visit: [www.routledge.com/9781138491847](http://www.routledge.com/9781138491847)

2nd Edition

## International Environmental Risk Management

A Systems Approach



Robert A. Woellner, QUEST Management International, Greenwood Village, Colorado, **John Voorhees**, Greenberg Traurig, Denver, CO and **Christopher L. Bell**, Greenberg Traurig, Houston, TX

Based on the first edition with extensive analysis of practical applications of ISO 14000 and environmental compliance management systems, the second edition reflects ISO 14001 and makes available a frame of reference and systematic approach to effectively manage environmental risk. It provides a pathway for readers to understand and systematically implement environmental management systems that symbiotically support: enterprise risk management programs;

compliance, anti-bribery, and legal management systems; and product stewardship, carbon footprint assessments, and sustainability programs. Provides in-depth discussion of ways to use global environmental management standards.

CRC Press

**Market:** Environmental Science

August 2020: 235 x 156: 292pp

Hb: 978-1-138-05452-3: **£100.00**

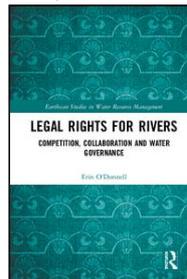
eBook: 978-1-315-16668-1

Prev. Ed Hb: 978-1-566-70291-1

\* For full contents and more information, visit: [www.crcpress.com/9781138054523](http://www.crcpress.com/9781138054523)

## Legal Rights for Rivers

Competition, Collaboration and Water Governance



**Erin O'Donnell**

*Series: Earthscan Studies in Water Resource Management*

Understanding the implications of creating legal rights for rivers is an urgent challenge for both water resource management and environmental law, with four rivers, in New Zealand, India and Colombia, having recently been given the status of legal persons. To assess what it means to give rivers legal rights and legal personality, this book examines the form and function of environmental water managers, organizations with legal personality, using the USA and Australia as examples. It shows the implications for water governance and the opportunities for collaboration or conflict.

Routledge

**Market:** Environment, Law, Politics

June 2020: 234x156: 212pp

Hb: 978-1-138-60325-7: **£120.00**

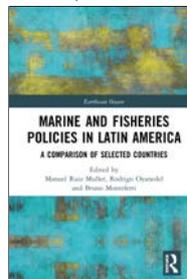
Pb: 978-0-367-58416-0: **£36.99**

eBook: 978-0-429-46905-3

\* For full contents and more information, visit: [www.routledge.com/9780367584160](http://www.routledge.com/9780367584160)

## Marine and Fisheries Policies in Latin America

A Comparison of Selected Countries



Edited by **Manuel Ruiz Muller**, **Rodrigo Oyanedel** and **Bruno Monteferrri**

*Series: Earthscan Oceans*

This book reviews the frameworks and implementation of policies and laws in marine, fisheries and coastal policy, in Chile, Mexico and Peru. A broad range of issues are covered including food security, tourism, fisheries, oil and mineral extraction from the sea bed, wind power, coastal and marine pollution and endangered species conservation, and identifies common lessons, reoccurring challenges and develops scalable recommendations applicable to the case study countries and the wider region. The book will be of interest to advanced students, policy makers and researchers in marine and fisheries

science, law and policy.

Routledge

**Market:** Environmental Policy / Environment & Sustainability / Latin America /

October 2019: 234x156: 192pp

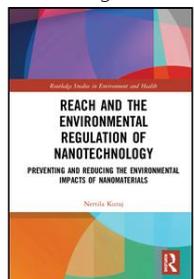
Hb: 978-1-138-38692-1: **£120.00**

eBook: 978-0-429-42652-0

\* For full contents and more information, visit: [www.routledge.com/9781138386921](http://www.routledge.com/9781138386921)

## REACH and the Environmental Regulation of Nanotechnology

Preventing and Reducing the Environmental Impacts of Nanomaterials



Nertila Kuraj

Series: *Routledge Studies in Environment and Health*

This book examines the European Commission's claim that REACH offers the best possible framework for the risk management of nanomaterials. Through a detailed and meticulous analysis of the four phases of REACH, Kuraj assesses the capacity of the Regulation to protect human health and the environment against the potential harms associated with exposure to nanomaterials, and draws attention to the ways in which the specificities of nanoscale chemicals are (not) tackled by the current REACH framework.

Routledge

Market: Climate Change / Environment & the City / Planning & Sustainability

August 2019: 234x156: 292pp

Hb: 978-0-367-18964-8: £120.00

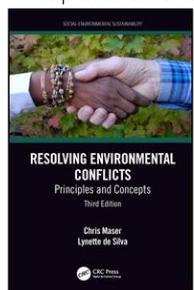
eBook: 978-0-367-18966-2

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3rd Edition

## Resolving Environmental Conflicts

Principles and Concepts



Chris Maser, Consultant in Forest Ecology and Sustainable Forestry Practices, Oregon, USA and Lynette de Silva, Oregon State University

Series: *Social Environmental Sustainability*

Previous editions have proven highly useful to both academics and practitioners who engage in environmental conflicts. Written in a clear and concise style, the text is a valuable, solution-oriented contribution that explains environmental conflict management. The new edition illustrates how to successfully mediate actual environmental disputes and how to teach conflict resolution at any level for a wide variety of social-environmental situations. Questions are posed at the end of each chapter and a new chapter on water conflicts is added

to discuss the applied practice of conflict management.

CRC Press

Market: Environmental Science

May 2019: 235 x 156: 234pp

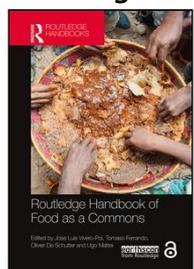
Hb: 978-1-138-49882-2: £88.99

eBook: 978-0-429-20014-4

Prev. Ed Hb: 978-1-439-85608-6

\* For full contents and more information, visit: [www.crcpress.com/9781138498822](http://www.crcpress.com/9781138498822)

## 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

September 2020: 246x174: 424pp

Hb: 978-1-138-06262-7: £190.00

Pb: 978-0-367-62856-7: £39.99

eBook: 978-1-315-16149-5

\* For full contents and more information, visit: [www.routledge.com/9780367628567](http://www.routledge.com/9780367628567)

## Smart Geospatial Practices and Applications in Local Government

An Altogether Different Language



David A. Holdstock, Geographic Technologies Group, Goldsboro, North Carolina, USA

The demand on local government to do more with less by improving operations, increasing productivity, and making better and more informed decisions increases constantly. On a departmental level Geographic Information Systems are helping meet this demand but the majority of local government organizations do not take the time to understand the GIS needs and opportunities of each and every department. This book is the guide that details best GIS applications and practices for the 34 departments in local government that can, and should, use GIS technology.

CRC Press

Market: Environmental Science

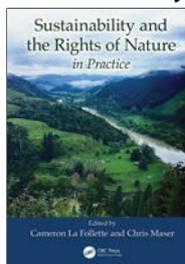
December 2019: 235 x 156: 248pp

Hb: 978-1-138-05457-8: £99.99

eBook: 978-1-315-16664-3

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## Sustainability and the Rights of Nature in Practice



Edited by Cameron La Follette and Chris Maser, Consultant in Forest Ecology and Sustainable Forestry Practices, Oregon, USA

Series: *Social Environmental Sustainability*

This book provides practitioners from diverse cultures around the world the opportunity to describe their own projects, successes, and challenges in moving toward a legal personhood for Nature. It includes contributions from Nepal, New Zealand, U.S. Native American cultures, and Scotland, amongst others, by practitioners working on projects that can be integrated into a Rights of Nature framework. The authors also tackle required changes to shift the paradigm such as thinking of Nature in a sacred manner, questioning Nature's rights versus human rights, conceptualization of restoration, and the removal of a large-scale energy infrastructure.

CRC Press

Market: Environmental Science

October 2019: 254 x 178: 436pp

Hb: 978-1-138-58451-8: £110.00

eBook: 978-0-429-50595-9

\* For full contents and more information, visit: [www.crcpress.com/9781138584518](http://www.crcpress.com/9781138584518)

## The Role of Law in Governing Sustainability

Edited by Volker Mauerhofer

Series: *Routledge/ISDRS Series in Sustainable Development Research*

This book explores how public and private actors can interrelate to achieve also by means of law a sustainable development which is beneficial for the environment, society and the economy. It assesses the structure, functions and perspectives of law in the wider governance frameworks of sustainable development. The book also provides latest and in-depth insights from each of the three dimensions of sustainable development and the relations among them. Latest political developments on global and regional level related to the environmental, social and the economic dimensions are provided as well as in-depth case studies.

Routledge

Market: Environment / Sustainable Development

May 2021: 234x156: 312pp

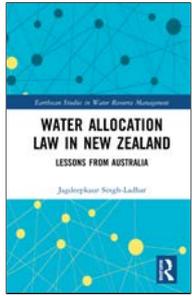
Hb: 978-0-367-74632-2: £120.00

eBook: 978-1-003-15883-7

\* For full contents and more information, visit: [www.routledge.com/9780367746322](http://www.routledge.com/9780367746322)

## Water Allocation Law in New Zealand

Lessons from Australia



Jagdeepkaur Singh-Ladhar

*Series: Earthscan Studies in Water Resource Management*

This book analyses water allocation law and policy in New Zealand and offers a comparative analysis with Australia. It will be of great interest to students and scholars researching water law and policy, natural resource management and environmental law more broadly. It was also be of use to policymakers and professional involved in developing and implementing water allocation laws and policies.

Routledge

**Market:** Water Law / Natural Resource Management

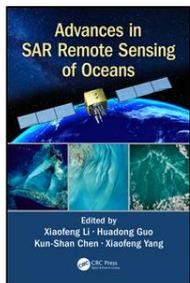
July 2020: 216x138: 158pp

Hb: 978-0-367-89662-1: **£120.00**

eBook: 978-1-003-02039-4

\* For full contents and more information, visit: [www.routledge.com/9780367896621](http://www.routledge.com/9780367896621)

## Advances in SAR Remote Sensing of Oceans



Edited by Xiaofeng Li, Huadong Guo, Kun-Shan Chen and Xiaofeng Yang

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

June 2020: 234x156: 362pp

Hb: 978-0-815-37677-4: £160.00

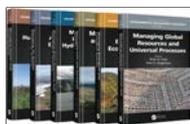
Pb: 978-0-367-57084-2: £41.99

eBook: 978-1-351-23582-2

\* For full contents and more information, visit: [www.crcpress.com/9780367570842](http://www.crcpress.com/9780367570842)

2nd Edition

## Environmental Management Handbook Six Volume Set



Edited by Brian D. Fath, Towson University and Sven Erik Jorgensen, Copenhagen University, Denmark

Series: *Applied Ecology and Environmental Management*

The Environmental Management Handbook is an excellent resource for finding basic knowledge on environmental systems. It reflects an extensive coverage of the field and includes the

most important problems and solutions posed to environmental management today. In a very practical way, the handbook demonstrates the key processes and provisions for enhancing environmental management. The experience, evidence, methods, and models used in studying environmental management is presented here in six stand-alone volumes, arranged along the major environmental systems. The chapters are contributed by leading experts from around the globe.

CRC Press

Market: Environmental Science

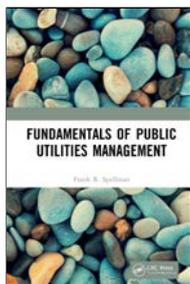
July 2020: 254 x 178: 3819pp

Hb: 978-1-138-34262-0: £575.00

eBook: 978-1-003-05432-0

\* For full contents and more information, visit: [www.crcpress.com/9781138342620](http://www.crcpress.com/9781138342620)

## Fundamentals of Public Utilities Management



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

Fundamentals of Public Utilities Management provides practical information for constructing a roadmap for successful compliance with new and ever-changing regulatory frameworks, upgrading and maintenance, and general management of utilities operations. It describes current challenges faced by utility managers and offers best practices. In an effort to maximize the usefulness of the material for a broad audience, the text is written in a straightforward, user-friendly, conversational style for students and practicing professionals alike.

CRC Press

Market: Civil Engineering

September 2020: 235 x 156: 278pp

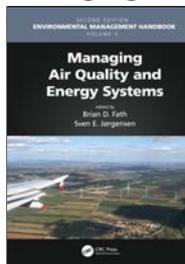
Hb: 978-0-367-54439-3: £89.99

eBook: 978-1-003-08959-9

\* For full contents and more information, visit: [www.crcpress.com/9780367544393](http://www.crcpress.com/9780367544393)

2nd Edition

## Managing Air Quality and Energy Systems



Edited by Brian D. Fath, Towson University and Sven Erik Jorgensen, Copenhagen University, Denmark

Series: *Environmental Management Handbook, Second Edition, Six-Volume Set*

This volume introduces the general concepts and processes of the atmosphere, with its related systems. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the atmosphere, and includes important problems and solutions that environmental managers face today. This book practically demonstrates the key processes, methods, and models used in studying environmental management. The

chapters are contributed by leading experts from around the globe.

CRC Press

Market: Environmental Science

July 2020: 254 x 178: 841pp

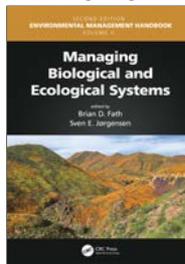
Hb: 978-1-138-34267-5: £190.00

eBook: 978-1-003-04346-1

\* For full contents and more information, visit: [www.crcpress.com/9781138342675](http://www.crcpress.com/9781138342675)

2nd Edition

## Managing Biological and Ecological Systems



Edited by Brian D. Fath, Towson University and Sven Erik Jorgensen, Copenhagen University, Denmark

Series: *Environmental Management Handbook, Second Edition, Six-Volume Set*

This volume introduces the general concepts and processes of the biosphere and all its systems. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the biosphere systems, and includes important problems and solutions that environmental managers face today. This book practically demonstrates the key processes, methods, and models used in studying environmental management. The

chapters are contributed by leading experts from around the globe.

CRC Press

Market: Environmental Engineering

July 2020: 254 x 178: 443pp

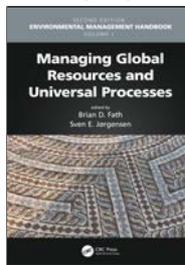
Hb: 978-1-138-34264-4: £140.00

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2nd Edition

## Managing Global Resources and Universal Processes



Edited by Brian D. Fath, Towson University and Sven Erik Jorgensen, Copenhagen University, Denmark

Series: *Environmental Management Handbook, Second Edition, Six-Volume Set*

This volume introduces the general concepts and processes used in environmental management. As an excellent resource for finding basic knowledge on environmental systems, it reflects an extensive coverage of the field and includes the most important problems and solutions facing environmental management today. In a very practical way, this volume demonstrates the key processes, experience, evidence, methods, and models used in studying environmental management. The

chapters are contributed by leading experts from around the globe.

CRC Press

Market: Environmental Science

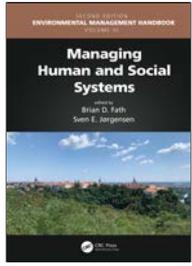
July 2020: 254 x 178: 576pp

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eBook: 978-0-429-34613-2

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In this sixth volume, *Managing Human and Social Systems*, the reader is introduced to all the environmental tools and their application to human and social systems. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the human and social systems, and includes important problems and solutions that environmental managers face today. The chapters are contributed by leading experts from

around the globe.

CRC Press

**Market:** Environmental Engineering

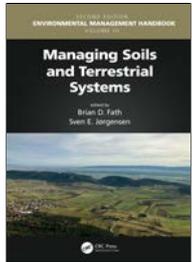
July 2020: 254 x 178: 538pp

Hb: 978-1-138-34268-2: **£140.00**

eBook: 978-1-003-05351-4

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**Managing Soils and Terrestrial Systems**

Edited by **Brian D. Fath**, Towson University and **Sven Erik Jorgensen**, Copenhagen University, Denmark  
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This volume introduces the general concepts and processes of the geosphere with its related soil and terrestrial systems. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the geosphere systems, and includes important problems and solutions that environmental managers face today. This book practically demonstrates the key processes, methods, and models used in studying environmental

management. The chapters are contributed by leading experts from around the globe.

CRC Press

**Market:** Environmental Science

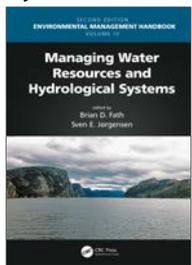
July 2020: 254 x 178: 664pp

Hb: 978-1-138-34265-1: **£140.00**

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Edited by **Brian D. Fath**, Towson University and **Sven Erik Jorgensen**, Copenhagen University, Denmark  
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This volume introduces the general concepts and processes of the hydrosphere with its water resources and hydrological systems. It explains how these systems function and provides strategies on how to best manage them. It serves as an excellent resource for finding basic knowledge on the hydrosphere systems, and includes important problems and solutions that environmental managers face today. This book practically demonstrates the key processes, methods, and models used in

studying environmental management. The chapters are contributed by leading experts from around the globe.

CRC Press

**Market:** Environmental Science

July 2020: 254 x 178: 757pp

Hb: 978-1-138-34266-8: **£140.00**

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**Nature-Based Solutions to 21st Century Challenges**

**Robert C. Brears**

This book provides a systematic review of nature-based solutions and their potential to address current environmental challenges. This book systematically reviews nature-based solutions from a public policy angle, assessing policy developments which encourage the implementation of nature-based solutions to address societal challenges while simultaneously providing human well-being and biodiversity benefits. It will be of great interest to policymakers, practitioners and researchers involved in nature-based solutions, sustainable urban planning, environmental management and sustainable development generally.

Routledge

**Market:** Sustainability / Environmental Management

April 2020: 234x156: 352pp

Hb: 978-0-367-26617-2: **£120.00**

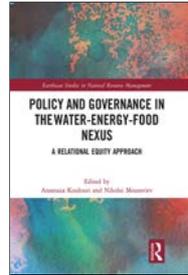
Pb: 978-0-367-26689-9: **£34.99**

eBook: 978-0-429-29460-0

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**Policy and Governance in the Water-Energy-Food Nexus**

A Relational Equity Approach



Edited by **Anastasia Koulouri**, Dundee Business School, Abertay University, UK and **Nikolai Mouraviev**, Dundee Business School, Abertay University, UK

*Series: Earthscan Studies in Natural Resource Management*

This book discusses the balance of priorities within the Water-Energy-Food (WEF) nexus and its impact on policy development and implementation, highlighting innovative perspectives in adopting a holistic approach to identify, analyse and manage the nexus component interdependencies. The combination of theoretical and case study chapters makes the book of interest to a wide audience, including scholars and advanced students of sustainable development, agriculture and

food studies, water and energy policy design and governance, as well as to practitioners working in the fields of water, energy and food security.

Routledge

**Market:** Environment & Sustainability / Business & Economics / Politics

August 2019: 234x156: 180pp

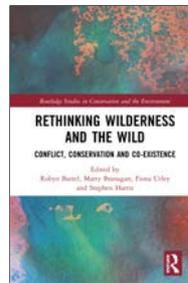
Hb: 978-1-138-35737-2: **£120.00**

eBook: 978-0-429-42771-8

\* For full contents and more information, visit: [www.routledge.com/9781138357372](http://www.routledge.com/9781138357372)

**Rethinking Wilderness and the Wild**

Conflict, Conservation and Co-existence



Edited by **Robyn Bartel**, **Marty Branagan**, University of New England, Australia, **Fiona Utley**, University of New England, Australia and **Stephen Harris**, University of New England, Australia

*Series: Routledge Studies in Conservation and the Environment*

*Rethinking Wilderness and the Wild: Conflict, Conservation and Co-existence* examines the complexities surrounding the concept of wilderness.

This book will be of great interest to students and scholars of conservation, environmental and natural resource management, indigenous studies and environmental policy and planning. It will also be of interest to practitioners, policymakers and NGOs involved in conservation, protected environments and environmental governance.

Routledge

**Market:** Wilderness / Conservation / Environmental Management

October 2020: 234x156: 316pp

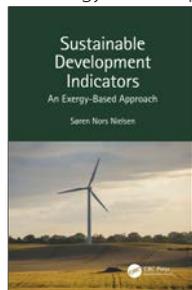
Hb: 978-0-367-27985-1: **£120.00**

eBook: 978-0-429-29902-5

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## Sustainable Development Indicators

An Exergy-Based Approach



Søren Nors Nielsen, Aalborg University, Copenhagen, Denmark

Series: *Applied Ecology and Environmental Management*

Analyzing the self-sufficient Danish island of Samsø, this book explains sustainability through a biogeophysical understanding of how to best use Earth's limited resources to achieve true sustainability. The method used derives from the thermodynamic function of exergy. By analyzing exergy flows and establishing a system for evaluating the energy and the materials used in a society, the author creates a platform for monitoring certain indicators of sustainability. These indicators inform readers about the actions that must be taken, and the timeframes for achieving sustainability goals. Exergy-based approach is an important tool

for carrying out such analysis.

CRC Press

Market: Environmental Science

May 2020: 235 x 156: 237pp

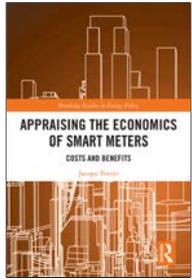
Hb: 978-0-367-25735-4: £74.99

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## Appraising the Economics of Smart Meters

Costs and Benefits



Jacopo Torriti

*Series: Routledge Studies in Energy Policy*

This book focuses on the economics of smart meters and is one of the first to present comprehensive evidence on the impacts, cost-benefits and risks associated with smart metering. Throughout this volume, Jacopo Torriti integrates his findings from institutional cost-benefit analyses and smart metering trials in a range of European countries with key economic and social concepts and policy insights derived from almost ten years of research in this area. This book will be of great interest to students and scholars of energy policy and demand and smart metering infrastructure.

Routledge

**Market:** Climate Change / Environmental Policy

March 2020: 234x156: 188pp

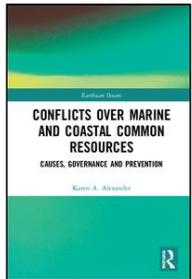
Hb: 978-0-367-20336-8: **£120.00**

eBook: 978-0-367-20337-5

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## Conflicts over Marine and Coastal Common Resources

Causes, Governance and Prevention



Karen A. Alexander, University of Tasmania, Australia

*Series: Earthscan Oceans*

This book explores the types of conflicts that occur over marine and coastal resources, the underlying causes, and attempts to prevent them. This book will be of interest to students and researchers of coastal and marine science and environmental management as well as those working in the field of marine resource management, including coastal zone managers and fisheries managers.

Routledge

**Market:** Marine Science / Environmental Policy / Geography

July 2019: 234x156: 178pp

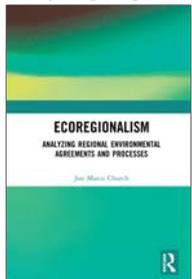
Hb: 978-1-138-63525-8: **£120.00**

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## Ecoregionalism

Analyzing Regional Environmental Agreements and Processes



Jon Marco Church, Université de Reims  
Champagne-Ardenne, France

Ecoregions are defined on natural resource boundaries rather than political criteria. The aim of this book is to provide a comprehensive understanding of environmental regionalism at the international level, analyzing the concept and its evolution. Several disciplines are mobilized to develop a model of ecoregional processes: ecology, geography, economics, and political science. The author argues how a better understanding of ecoregionalism contributes to the strengthening of existing regional environmental arrangements, as well as to the greening of ongoing regional integration processes.

Routledge

**Market:** Environment & Sustainability / Politics & International Relations / Law

May 2020: 234x156: 282pp

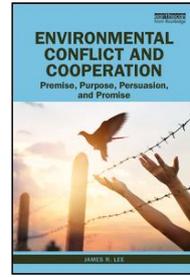
Hb: 978-0-415-71167-8: **£120.00**

eBook: 978-1-315-88444-8

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## Environmental Conflict and Cooperation

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

June 2019: 234x156: 248pp

Hb: 978-0-815-35249-5: **£120.00**

Pb: 978-0-815-35251-8: **£36.99**

eBook: 978-1-351-13924-3

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## Environmental Justice

Key Issues



Edited by Brendan Coolsaet

*Series: Key Issues in Environment and Sustainability*

This book offers a comprehensive overview of the field of environmental justice. Written by leading international experts from a variety of professional, geographic, ethnic and disciplinary backgrounds, its chapters combine authoritative commentary with real-life cases. Organised into four parts – approaches, issues, actors and future directions – the chapters help the reader to understand the foundations of the field, including the principal concepts, debates and historical milestones. This book is the ideal toolkit for junior researchers, graduate students, upper-level undergraduates and anyone in need of a comprehensive introductory textbook on environmental justice.

Routledge

**Market:** Environment / Justice

July 2020: 246x174: 364pp

Hb: 978-0-367-13992-6: **£120.00**

Pb: 978-0-367-13993-3: **£32.99**

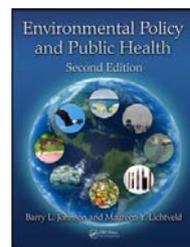
eBook: 978-0-429-02958-5

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2nd Edition

## Environmental Policy and Public Health



Barry L. Johnson, North Carolina State University, USA. and  
Maureen Y. Lichtveld

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

June 2020: 280x216: 536pp

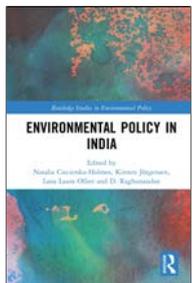
Hb: 978-1-498-79939-3: **£110.00**

Pb: 978-0-367-57276-1: **£41.99**

eBook: 978-1-351-22847-3

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## Environmental Policy in India



Edited by **Natalia Ciecierska-Holmes, Kirsten Jörgensen, Lana Laura Ollier and D. Raghunandan**

Series: *Routledge Studies in Environmental Policy*

This book systematically introduces historical trajectories and dynamics of environmental policy and governance in India. The chapters examine the interplay between governmental, and non-governmental actors, and the influence of social mobilization and institutions on environmental policy and governance. Analysing various policy trajectories, the chapters identify and explore five central environmental policy subsystems: forests, water, climate, energy, and city development. Drawing on political science theories of policy processes, this innovative edited volume will be of great interest

to students and scholars of environmental policy and politics and South Asian studies more broadly.

Routledge

Market: Environmental Policy  
December 2019: 234x156: 278pp  
Hb: 978-0-367-35765-8: **£120.00**  
eBook: 978-0-429-34153-3

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## EU Environmental Governance

Current and Future Challenges



Edited by **Amandine Orsini, Université Saint-Louis - Bruxelles, Belgium and Elena Kavvatha**

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This book presents an overview of the field of environmental law and policies within the European Union, from theoretical foundations to major issues and applied governance solutions. The volume is designed to help readers to understand the main legal, political and economic issues of environmental protection since the adoption of the Paris Agreement by the European Union in 2015, until the 2020 Brexit and European Green Deal. This book is a valuable resource for students, researchers and policymakers across a broad range of fields

including environmental law and policies, environmental economics, climate science and environmental sociology.

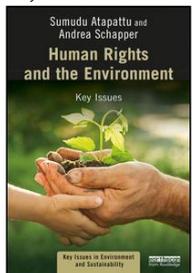
Routledge

Market: Environmental Law and Policy/Environmental Studies  
September 2020: 234x156: 260pp  
Hb: 978-0-367-41867-0: **£120.00**  
Pb: 978-0-367-41868-7: **£34.99**  
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## Human Rights and the Environment

Key Issues



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

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This book provides a good understanding of both human rights and environmental issues, as well as the limitations of each regime, and explores 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 place an emphasis on climate change and climate policies. Combining their specialisms in law and politics, Atapattu and Schapper have 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

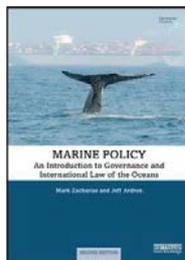
Market: Environment and Sustainability/ Human Rights  
March 2019: 234x156: 384pp  
Hb: 978-1-138-72274-3: **£120.00**  
Pb: 978-1-138-72275-0: **£37.99**  
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2nd Edition

## Marine Policy

An Introduction to Governance and International Law of the Oceans



**Mark Zacharias**, Ministry of Environment & Climate Change Strategy, Canada and **Jeff Ardron**, Commonwealth Secretariat, UK

Series: *Earthscan Oceans*

This textbook provides readers with a foundation in policy development and analysis, describing how policy, including legal mechanisms, are applied to the marine environment. It presents a systematic treatment of all aspects of marine policy, including climate change, energy, environmental protection, fisheries, mining and transportation. Aligned with current course offerings, this textbook is an ideal introduction for undergraduates and graduate students taking marine affairs,

science and policy courses.

Routledge

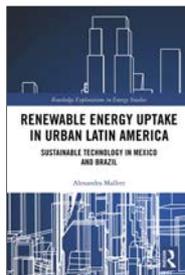
Market: Environment & Sustainability / Environmental Policy/ Natural Resource Management  
June 2019: 246x174: 346pp  
Hb: 978-0-815-37926-3: **£120.00**  
Pb: 978-0-815-37927-0: **£43.99**  
eBook: 978-1-351-21622-7

Prev. Ed Pb: 978-0-415-63308-6

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## Renewable Energy Uptake in Urban Latin America

Sustainable Technology in Mexico and Brazil



**Alexandra Mallett**, Carleton University, Canada

Series: *Routledge Explorations in Energy Studies*

This book explores the perplexing question of how to increase sustainable energy technology use in the developing world, and specifically focuses on two mega-cities within Latin America. It examines the market and uptake of two sustainable energy technologies (solar water heaters and biogas to produce electricity) in two locations, Mexico City, Mexico and São Paulo, Brazil in the 2000s. The book examines the varying factors affecting the implementation of renewable energy technologies (RETs) in urban Latin America. It will be of great interest to students and scholars of energy transitions, energy policy, development studies and science and technology studies.

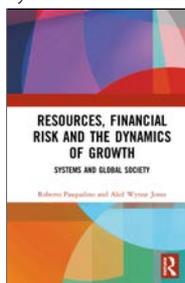
Routledge

Market: Energy Studies/Environment and Sustainability Studies  
March 2020: 234x156: 260pp  
Hb: 978-0-367-18439-1: **£120.00**  
eBook: 978-0-429-06145-5

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## Resources, Financial Risk and the Dynamics of Growth

Systems and Global Society



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

This book presents a new System Dynamics model (the ERRE model) designed by the authors to address the financial risks emerging from the interaction between economic growth and environmental limits under the presence of shocks. Building on the World3-03 Limits to Growth model, the ERRE links the financial system with the energy, agriculture and climate systems through the real economy, by means of feedback loops, time lags and non-linear rationally bounded decision making. This book will be of great interest to scholars of climate change, behavioural, ecological and evolutionary economics, green finance, and sustainable development.

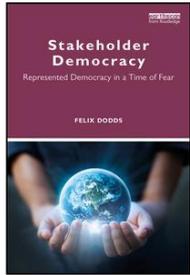
Routledge

Market: Environment, Sustainability  
May 2020: 234x156: 330pp  
Hb: 978-1-138-18735-1: **£120.00**  
eBook: 978-1-315-64318-2

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## Stakeholder Democracy

Represented Democracy in a Time of Fear



**Felix Dodds**, University of North Carolina & Tellus Institute, USA, **Jan-Gustav Strandenaes**, **Minu Hemmati**, **Carolina Duque Chopitea**, **Bernd Lakemeier**, **Susanne Salz**, **Jana Borkenhagen** and **Laura Schmitz**

In the context of sustainable development, this book describes how we are moving from representative to participatory democracy, and how we are now in a 'Stakeholder Democracy'. The book is essential reading for professionals and trainees engaging in multi-stakeholder processes for policy development and to implement agreements. It will also be useful for students of sustainable development, politics and international relations.

Routledge

**Market:** Politics / Environment / Sociology

June 2019: 234x156: 262pp

Hb: 978-0-815-38692-6: **£120.00**

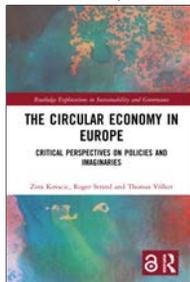
Pb: 978-0-815-38693-3: **£38.99**

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## The Circular Economy in Europe

Critical Perspectives on Policies and Imaginaries



**Zora Kovacic**, **Roger Strand** and **Thomas Völker**

*Series: Routledge Explorations in Sustainability and Governance*

*The Circular Economy in Europe* presents an overview and a critical discussion on how circularity is conceived, imagined and enacted in current EU policy-making.

This book is essential reading for all those interested in understanding how ideas about the circular economy emerged historically, how they gained traction and are used in policy processes, and what the practical challenges in implementing this policy are.

Routledge

**Market:** Environment / Environmental Policy

November 2019: 234x156: 208pp

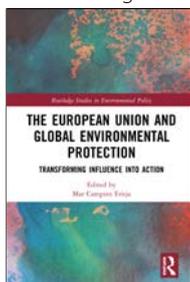
Hb: 978-0-367-18358-5: **£120.00**

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## The European Union and Global Environmental Protection

Transforming Influence into Action



Edited by **Mar Campins Eritja**

*Series: Routledge Studies in Environmental Policy*

The European Union and Global Environmental Protection examines how the EU can be a more proactive actor in the promotion of the principles of sustainability and fairness from a legal environmental perspective.

It begins with an introduction and assessment of the key EU competences, international and regional instruments and mechanisms, as well as the current legal framework in place at the EU level.

This volume will be of great relevance to students, scholars and EU policy makers with an interest in international environmental

law and policy.

Routledge

**Market:** Environmental Law/European Union Policy/ International Governance

November 2020: 234x156: 208pp

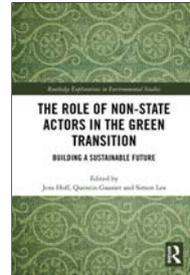
Hb: 978-0-367-89321-7: **£120.00**

eBook: 978-1-003-01851-3

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## The Role of Non-State Actors in the Green Transition

Building a Sustainable Future



Edited by **Jens Hoff**, **Quentin Gausset**, University of Copenhagen, Denmark and **Simon Lex**

*Series: Routledge Explorations in Environmental Studies*

This book argues that there is no way to make progress in building a sustainable future without extensive participation of non-state actors. The volume explores the contribution of non-state actors to a sustainable transition, starting with citizens and communities of different kinds and ending with cities and city-networks in the UK, Australia, Germany, Italy and Denmark. It highlights the need to develop, widen and scale up collective action and community-based engagement if the transition to sustainability is to be successful. This book will be of great interest to students and scholars of climate change, sustainability and environmental policy.

Routledge

September 2019: 234x156: 290pp

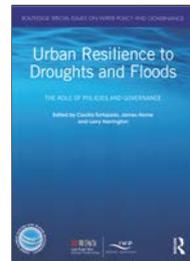
Hb: 978-0-367-23559-8: **£120.00**

eBook: 978-0-429-28039-9

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## Urban Resilience to Droughts and Floods

The Role of Policies and Governance



Edited by **Cecilia Tortajada**, **James Horne** and **Larry Harrington**

This book focuses on policies and governance on how to build the resilience of cities to droughts and floods. There are discussions on how cities prepare for, cope with, learn from, manage, and recover from these extreme events. This book was originally published as a special issue of the *International Journal of Water Resources Development*.

Routledge

June 2020: 246x174: 244pp

Hb: 978-0-367-00212-1: **£120.00**

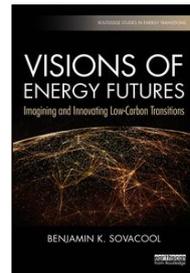
Pb: 978-0-367-58327-9: **£36.99**

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## Visions of Energy Futures

Imagining and Innovating Low-Carbon Transitions



**Benjamin K. Sovacool**

*Series: Routledge Studies in Energy Transitions*

This book seeks to examine the visions, fantasies, expectations, and rhetoric associated with six state-of-the-art energy systems—shale gas, clean coal, nuclear power, hydrogen fuel cells, smart meters, and electric vehicles—playing a key role in current deliberations about low-carbon energy supply and use. Theoretically, the book will test these technological case studies with emerging concepts from various disciplines and draws from these cases to create a synthetic set of dichotomies and frameworks for energy futures in the conclusion.

Routledge

**Market:** Environment / Energy

March 2019: 234x156: 270pp

Hb: 978-0-367-11199-1: **£120.00**

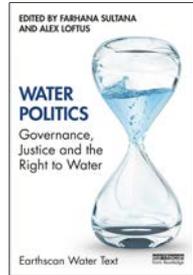
Pb: 978-0-367-11200-4: **£34.99**

eBook: 978-0-367-13517-1

\* For full contents and more information, visit: [www.routledge.com/9780367112004](http://www.routledge.com/9780367112004)

## Water Politics

Governance, Justice and the Right to Water



Edited by **Farhana Sultana**, Syracuse University, USA and **Alex Loftus**, King's College London, UK

Series: *Earthscan Water Text*

Scholarship on the right to water has proliferated in recent years. This volume broadens existing discussions on the right to water in order to critically shed light on the pathways, pitfalls, prospects, and constraints that exist in achieving global goals, as well as advance debates around water governance and water justice. This textbook is essential reading for students of water governance, environmental policy, politics, geography, and law. It will be of great interest to policymakers and practitioners working in water governance and the human right to water and

sanitation.

Routledge

**Market:** Environment, Geography, Politics

September 2019: 234x156: 238pp

Hb: 978-1-138-32002-4: **£120.00**

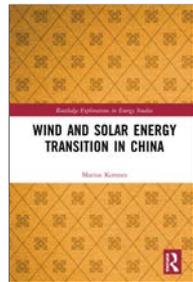
Pb: 978-1-138-32003-1: **£36.99**

eBook: 978-0-429-45357-1

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## Wind and Solar Energy Transition in China



**Marius Korsnes**

Series: *Routledge Explorations in Energy Studies*

This book explores the mobilisation of China's wind and solar industries and examines the benefits and disadvantages of this development to energy production, innovation and governance. It sheds new light on the strategic development of China's renewable energy industry, the flexible governance methods employed, and the internal struggles that Chinese local and central policymakers, state-owned enterprises and academia have faced. This book will be of great relevance to students and scholars of renewable energy technologies, energy policy and sustainability transitions, as well as policymakers with a specific interest in China.

Routledge

**Market:** Environment and Sustainability / Energy Transition

October 2019: 234x156: 206pp

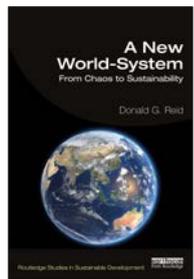
Hb: 978-0-367-19418-5: **£120.00**

eBook: 978-0-367-19419-2

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## A New World-System

From Chaos to Sustainability



Donald G. Reid, University of Guelph, Canada

Series: *Routledge Studies in Sustainable Development*

This book examines the present crisis in the social and ecological environment that is producing profound, potentially catastrophic challenges to the planet and humanity, and outlines a process for moving forward to address these critical issues. Part 1 surveys the five major threats facing humanity today: climate change, inequality and poverty, new technologies, migration and globalization. It approaches the challenge of integrating these phenomena into a global picture from a systems perspective. Part 2 moves to solving these problems with chapters examining the ability of the present world-system to address these issues and outlining a process for action.

Routledge

Market: Sustainable Development / Environment

November 2020: 234x156: 238pp

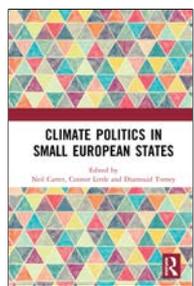
Hb: 978-0-367-61130-9: £120.00

Pb: 978-0-367-60967-2: £34.99

eBook: 978-1-003-10426-1

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## Climate Politics in Small European States



Edited by Neil Carter, University of York, UK, Connor Little and Diarmuid Torney, Dublin City University, Ireland

*Climate Politics in Small European States* examines how the characteristics of small states structure climate politics and both enable and constrain ambitious climate policies. This volume contributes to our knowledge of how institutions, including electoral institutions and institutions of interest intermediation, actors such as parties, interest groups, individuals, governments, and ideas shape climate policy and politics.

The chapters in this book were originally published as a special issue of *Environmental Politics*.

Routledge

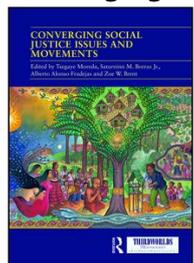
Market: Environmental Politics

December 2020: 246x174: 180pp

Hb: 978-0-367-63996-9: £120.00

\* For full contents and more information, visit: [www.routledge.com/9780367639969](http://www.routledge.com/9780367639969)

## Converging Social Justice Issues and Movements



Edited by Tsegaye Moreda, International Institute of Social Studies, Erasmus University Rotterdam, The Netherlands, Saturnino M. Borrás Jr., International Institute of Social Studies, Erasmus University Rotterdam, The Netherlands, Alberto Alonso-Fradejas, International Institute of Social Studies, Erasmus University Rotterdam, The Netherlands and Zoe W. Brent, International Institute of Social Studies, Erasmus University Rotterdam, The Netherlands

Series: *Third Worlds*

This book argues that the multiple contemporary converging crises have significantly altered the context for and object of political contestations around agrarian, climate, environmental and food justice issues. The majority of the discussions in this volume are dedicated to the issue of responses to the crises both by capitalist forces and those adversely affected by the crises, and the implications of these for academic research and political activist work. The chapters were originally published as a special issue in *Third World Quarterly*.

Routledge

Market: Agrarian Studies / Climate Studies / Environment

December 2019: 246x174: 230pp

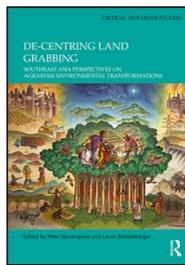
Hb: 978-0-367-43050-4: £120.00

eBook: 978-1-003-00096-9

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## 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

June 2020: 246x174: 292pp

Hb: 978-0-815-35387-4: £120.00

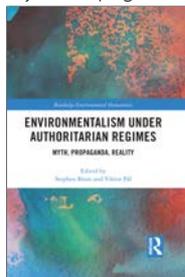
Pb: 978-0-367-51952-0: £36.99

eBook: 978-1-351-13487-3

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## Environmentalism under Authoritarian Regimes

Myth, Propaganda, Reality



Edited by Stephen Brain and Viktor Pál

This book explores the theme of environmental politics and authoritarian regimes on both the right and the left. The authors argue that in instances when environmentalist policies offer the possibility of bolstering a country's domestic (nationalist) appeal or its international prestige, authoritarian regimes can endorse and have endorsed environmental protective measures. The collection of essays analyse environmentalist initiatives pursued by authoritarian regimes, and provide explanations for both the successes and failures of such regimes. This book will be of great interest to those studying environmental history and politics, environmental humanities, ecology and geography.

Routledge

September 2020: 234x156: 252pp

Hb: 978-1-138-54328-7: £120.00

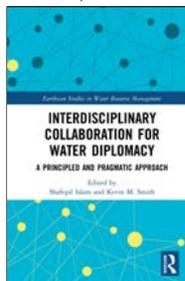
Pb: 978-0-367-66486-2: £36.99

eBook: 978-1-351-00706-1

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## Interdisciplinary Collaboration for Water Diplomacy

A Principled and Pragmatic Approach



Edited by Shafiqul Islam, Tufts University, USA and Kevin M. Smith, Tufts University, USA

Series: *Earthscan Studies in Water Resource Management*

This book introduces the concept of Water Diplomacy as a principled and pragmatic approach to problem driven interdisciplinary collaboration, which has been developed as a response to pressing contemporary water challenges arising from the coupling of natural and human systems. It offers critical lessons and case studies for researchers and practitioners working on complex water issues as well as important lessons for those looking to initiate, implement or evaluate interdisciplinary program to address other complex problems in any setting.

Routledge

Market: Water / Environment & Sustainability

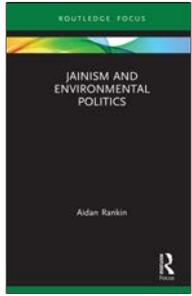
November 2019: 234x156: 324pp

Hb: 978-1-138-36928-3: £120.00

eBook: 978-0-429-42876-0

\* For full contents and more information, visit: [www.routledge.com/9781138369283](http://www.routledge.com/9781138369283)

## Jainism and Environmental Politics



Aidan Rankin

Series: *Routledge Focus on Environment and Sustainability*

This book explores the ways in which the ecologically centred Indian philosophy of Jainism could introduce a new and non-western methodology to environmental politics, with the potential to help the green movement find new audiences and a new voice. Aidan Rankin argues that Jain pluralism could be a powerful tool for engaging non-western societies with environmental politics, allowing for an inclusive approach to a global ecological problem. This book will be of great interest to students and scholars of environmental politics, environmental philosophy, comparative religions and Jainism.

Routledge

Market: Environmental Politics/Comparative Religions/Jainism

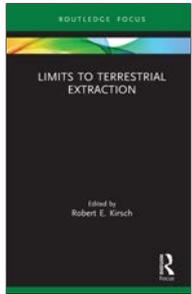
November 2019: 216x138: 104pp

Hb: 978-0-367-18976-1: £44.99

eBook: 978-0-367-18977-8

\* For full contents and more information, visit: [www.routledge.com/9780367189761](http://www.routledge.com/9780367189761)

## Limits to Terrestrial Extraction



Edited by Robert Kirsch, Arizona State University, USA

Series: *Routledge Focus on Energy Studies*

This volume focuses on the social, cultural, and ecological consequences of a political economy of energy. This book looks at the construction of society itself as an energy-harvesting "megamachine," and explores the limit to terrestrial extraction, finding that business as usual cannot yield a different world. The authors offer critiques of market society and its constitutive drive to produce and waste energy. This book will be of great interest to students and scholars of environmental political theory, as well as social scientists and humanities scholars who study the intersection of energy and society.

Routledge

Market: Environmental Politics/Energy

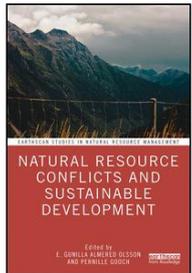
February 2020: 216x138: 90pp

Hb: 978-0-367-86336-4: £44.99

eBook: 978-1-003-01848-3

\* For full contents and more information, visit: [www.routledge.com/9780367863364](http://www.routledge.com/9780367863364)

## Natural Resource Conflicts and Sustainable Development



Edited by E. Gunilla Almered Olsson, University of Gothenburg, Sweden and Pernille Gooch, Lund University, Sweden

Series: *Earthscan Studies in Natural Resource Management*

Providing both a theoretical background and practical examples of natural resource conflict, this volume explores the pressures on natural resources leading to scarcity and conflict. A range of global examples is presented including water resources, fisheries, forests, human-wildlife conflicts, urban environments and the consequences of climate change. It will be a valuable text for advanced students of natural resource management, development studies and peace and conflict management. The book will also be of interest to practitioners in the field of natural resource management.

Routledge

Market: Environment, Politics, Security Studies

April 2019: 234x156: 242pp

Hb: 978-1-138-57688-9: £120.00

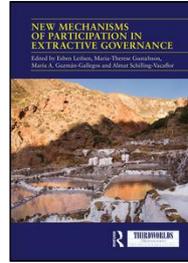
Pb: 978-1-138-57689-6: £32.99

eBook: 978-1-351-26864-6

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## New Mechanisms of Participation in Extractive Governance

Between technologies of governance and resistance work



Edited by Esben Leifsen, Maria-Therese Gustafsson, Maria Antonieta Guzman-Gallegos and Almut Schilling-Vacaflo

Through nine empirically grounded case studies from Latin America, Europe and Australia, this book critically assesses different forms of participation related to resource extraction activities. The chapters originally published as a special issue in *Third World Quarterly*

Routledge

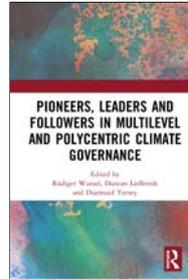
June 2020: 246x174: 190pp

Hb: 978-0-815-36047-6: £120.00

Pb: 978-0-367-58853-3: £36.99

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## Pioneers, Leaders and Followers in Multilevel and Polycentric Climate Governance



Edited by Rüdiger Wurzel, University of Hull, UK, Duncan Liefferink, Radboud University, the Netherlands and Diarmuid Torney, Dublin City University, Ireland

This volume focuses on pioneers, leaders and followers as central drivers for international climate change governance innovations. It focuses primarily on non-state actors in different multilevel and polycentric governance structures offering critical analysis of actors who can act as pioneers and/or leaders at different levels of climate governance. The volume provides assessments of their motives, capacities, styles and strategies. It examines the dynamic interrelationship between leaders and pioneers, and followers and laggards. Moreover, it analyses how multilevel and polycentric climate governance structures enable

and/or constrain climate pioneers, leaders and followers.

Routledge

Market: Climate Change / Governance

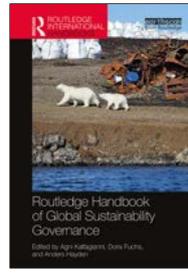
March 2020: 234x156: 202pp

Hb: 978-0-367-46759-3: £120.00

eBook: 978-1-003-03108-6

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## Routledge Handbook of Global Sustainability Governance



Edited by Agni Kalfagianni, University of Utrecht, The Netherlands, Doris Fuchs and Anders Hayden

Series: *Routledge International Handbooks*

This Handbook provides a state-of-the-art review of the core debates and contributions that offer a more normative, critical and transformatively aspirational view on global sustainability governance. Providing coverage of key themes and concepts including consumerism, North-South inequity, decarbonisation and sustainable consumption corridors, this Handbook will serve as an important resource for both academics and practitioners researching and working in the fields of environment and sustainability governance and politics.

Routledge

Market: Environment and Sustainability/International Politics and Governance

November 2019: 246x174: 410pp

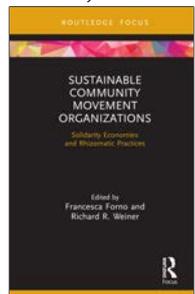
Hb: 978-1-138-04828-7: £190.00

eBook: 978-1-315-17023-7

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## Sustainable Community Movement Organizations

Solidarity Economies and Rhizomatic Practices



Edited by **Francesca Forno** and **Richard R. Weiner**

Series: *Routledge Focus on Environment and Sustainability*

This volume shines a light on Sustainable Community Movement Organisations (SCMOs), an emergent wave of non-hierarchical, community-based socio-economic movements, with alternative forms of consumption and production very much at their core. The essays in this collection explore new geographies of solidarity practices ranging from forms of horizontal democracy to interurban and transnational networks. This book will be a valuable tool for academics and students of sustainable consumption, environmental policy, social policy, environmental economics, environmental management and sustainability studies more broadly.

Routledge

Market: Sustainability / Environment & Society

April 2020: 216x138: 148pp

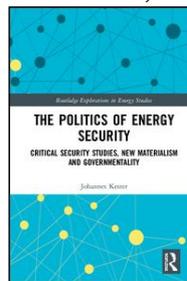
Hb: 978-0-367-34223-4: **£44.99**

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## The Politics of Energy Security

Critical Security Studies, New Materialism and Governmentality



Johannes Kester

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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

March 2020: 234x156: 248pp

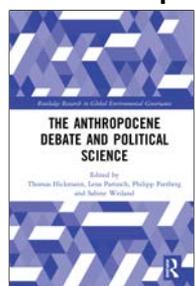
Hb: 978-1-138-03747-2: **£120.00**

Pb: 978-0-367-50766-4: **£36.99**

eBook: 978-1-315-17789-2

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## The Anthropocene Debate and Political Science



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

Series: *Routledge Research in Global Environmental Governance*

This book contributes to the Anthropocene debate by providing novel theoretical and conceptual accounts of the Anthropocene, engaging with contemporary politics and policy-making on the subject, and offering a critical reflection on the debate as such. The focus is on two questions: (1) What is the contribution of political science to the Anthropocene debate, e.g. in terms of identified problems, answers, and solutions? (2) What are the conceptual and practical implications of the Anthropocene debate for political science as a discipline? It will be of great interest to students and scholars of political science, global

environmental politics and governance, and sustainable development.

Routledge

Market: Environmental Politics/Environmental Policy

May 2020: 234x156: 278pp

Hb: 978-0-815-38614-8: **£120.00**

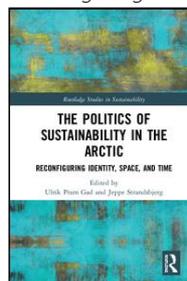
Pb: 978-0-367-53495-0: **£36.99**

eBook: 978-1-351-17412-1

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## The Politics of Sustainability in the Arctic

Reconfiguring Identity, Space, and Time



Edited by **Ulrik Pram Gad** and **Jeppe Strandsbjerg**

Series: *Routledge Studies in Sustainability*

This book argues that sustainability is a political concept because it defines and shapes competing visions of the future. It sets out a theoretical framework for understanding and analysing sustainability as a political concept, and provides a comprehensive empirical investigation of Arctic sustainability discourses. Presenting a range of case studies, the essays in this volume analyse the concept of sustainability and how actors are employing and contesting this concept in specific regions within the Arctic.

Routledge

Market: Environment, Sustainability

March 2020: 234x156: 276pp

Hb: 978-1-138-49183-0: **£120.00**

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## The Future of European Union Environmental Politics and Policy



Edited by **Anthony R. Zito**, University of Newcastle, UK, **Charlotte Burns**, University of Sheffield, UK and **Andrea Lenschow**, Osnabrück University, Germany

This volume investigates the trajectory of EU environmental policy and reflects on how it has evolved over the decades. Gathering together leading scholars working on European environmental policy, it assesses change that has occurred in dimensions of EU environmental policy research, including the EU's values and approaches, the provision of leadership, Brexit and the dismantling of policies, policy instruments and climate change, policy implementation and enforcement as well as policy evaluation. Each chapter also assesses the implications of current developments for the future health of European

environmental policy, European integration and the environment itself.

Routledge

Market: Environmental Politics / European Union

March 2020: 234x156: 216pp

Hb: 978-0-367-46765-4: **£120.00**

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## A Creative Philosophy of Anticipation

Futures in the Gaps of the Present

Edited by **Jamie Brassett**, University of the Arts London, UK and **John O'Reilly**, University of the Arts London, UK

Series: *Routledge Research in Anticipation and Futures*

This collection highlights the valuable ontological and creative insights gathered from anticipation studies, which orients itself to the future in order to shape the present. Authors gathered in this volume provide critical expertise across anticipation, philosophy, the future and the present, to emphasize the important role creativity plays as they intersect with a number of other disciplines including science, religion, business and psychology, among others. This book will be of interest scholars and research in futures studies, anticipation, philosophy, creative practice and theories about creative practice, as well as the intersections between philosophy, creativity and business.

Routledge

Market: Philosophy / Future Studies

April 2021: 234x156: 296pp

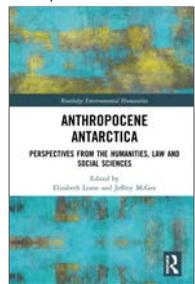
Hb: 978-0-367-23456-0: **£120.00**

eBook: 978-0-367-23459-1

\* For full contents and more information, visit: [www.routledge.com/9780367234560](http://www.routledge.com/9780367234560)

## Anthropocene Antarctica

Perspectives from the Humanities, Law and Social Sciences



Edited by **Elizabeth Leane** and **Jeffrey McGee**

Series: *Routledge Environmental Humanities*

*Anthropocene Antarctica* offers new ways of thinking about the 'Continent for Science and Peace' in a time of planetary environmental change. This collection paves the way for researchers in the Environmental Humanities, Law and Social Sciences to engage critically with the Antarctic, fostering a community of scholars who can act with natural scientists to address the globally significant environmental issues that face this vitally important part of the planet.

Routledge

Market: Environment / Environmental Humanities

September 2019: 234x156: 210pp

Hb: 978-1-138-36759-3: **£120.00**

eBook: 978-0-429-42970-5

\* For full contents and more information, visit: [www.routledge.com/9781138367593](http://www.routledge.com/9781138367593)

## Beyond Recycling

Paul Micklethwaite

*Beyond Recycling* critically explores unasked questions around recycling and its prominent position in contemporary thinking about sustainability. It challenges assumptions about why we appear to have committed to recycling as a cultural project. The social, cultural and even environmental value of recycling has not been considered carefully enough. This book considers recycling as a contemporary cultural idea related to - but not wholly defined by - our response to material waste. *Beyond Recycling* is a fascinating read for conscious consumers and students in the creative arts, design, cultural studies, sustainability and environmental studies.

Routledge

Market: Environment / Sustainability

May 2021: 198x129: 160pp

Hb: 978-0-367-90388-6: **£70.00**

Pb: 978-0-367-90387-9: **£21.99**

eBook: 978-1-003-02408-8

\* For full contents and more information, visit: [www.routledge.com/9780367903879](http://www.routledge.com/9780367903879)

## Beyond the Blue Economy

Creative Industries and the Fourth Industrial Revolution in Small Island Developing States

Peter Rudge

Series: *Routledge Studies in Sustainable Development*

This book argues for a broader approach to sustainable growth in Small Island Developing States (SIDS).

Small island states such as those in the Caribbean, Indian Ocean and South Pacific face significant and growing threats from climate change, increasing political and social volatility and rapidly evolving global trends in technology and tourism. Based on ten years of research, this book looks beyond the Blue Economy of tourism and fisheries and provides a model of how creative industries, innovation networks, creative clusters and digital transformation can give SIDS the foundation for a strong sustainable future.

Routledge

Market: Developing Economies/Sustainable Development

April 2021: 234x156: 184pp

Hb: 978-0-367-82025-1: **£120.00**

eBook: 978-1-003-01151-4

\* For full contents and more information, visit: [www.routledge.com/9780367820251](http://www.routledge.com/9780367820251)

## Blue Ecocriticism and the Oceanic Imperative



Sidney I. Dobrin, University of Florida, Gainesville, FL, USA

Series: *Routledge Environmental Humanities*

This book initiates a conversation about blue ecocriticism: critical, ethical, cultural, and political positions that emerge from oceanic or aquatic frames of mind rather than traditional land-based approaches. The chapters explore a vast archive of oceanic literature, visual art, television and film, games, theory and criticism. By examining the relationships between these representations of ocean and cultural imaginaries, This book works to unmoor ecocriticism from its land-based anchors. This book aims to simultaneously advance blue ecocriticism as an intellectual pursuit within the environmental humanities and to advocate for ocean conservation as derivative of that pursuit.

Routledge

Market: Environment / Environmental Humanities

March 2021: 234x156: 272pp

Hb: 978-1-138-31522-8: **£120.00**

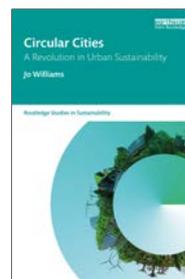
Pb: 978-1-138-31527-3: **£34.99**

eBook: 978-0-429-45646-6

\* For full contents and more information, visit: [www.routledge.com/9781138315273](http://www.routledge.com/9781138315273)

## Circular Cities

A Revolution in Urban Sustainability



Jo Williams, Bartlett School of Planning, University College London, UK

Series: *Routledge Studies in Sustainability*

This book provides the first, definitive summary of circular cities and compares them to other city types, such as smart, zero waste, regenerative, and resilient. With cities striving to meet sustainable development goals, circular urban systems are gaining momentum. Especially in Europe, cities have adopted measures and strategies that aim to create sustainable circular systems in fields ranging from infrastructure to urban planning, social consumption, industry and business. *Circular Cities* explains the shift in focus from a purely economic concept, which

promotes circular business models in cities, to one that explores a new approach to urban development.

Routledge

Market: Environment, Sustainability

April 2021: 234x156: 168pp

Hb: 978-1-138-59114-1: **£120.00**

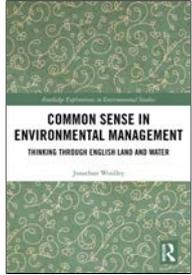
Pb: 978-0-367-74816-6: **£34.99**

eBook: 978-0-429-49061-3

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## Common Sense in Environmental Management

Thinking Through English Land and Water



Jonathan Woolley

*Series: Routledge Explorations in Environmental Studies*

*Common Sense in Environmental Management* examines common sense not in theory, but in practice. Jonathan Woolley argues that common sense as a concept is rooted in English experiences of landscape and land management and examines it ethnographically - unveiling common sense as key to understanding how British nature and public life are transforming in the present day.

Routledge

**Market:** Environment / Environmental Anthropology

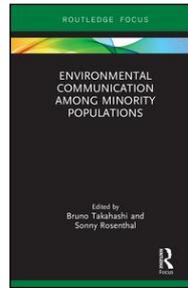
September 2019: 234x156: 184pp

Hb: 978-0-367-00237-4: **£120.00**

eBook: 978-0-429-40060-5

\* For full contents and more information, visit: [www.routledge.com/9780367002374](http://www.routledge.com/9780367002374)

## Environmental Communication Among Minority Populations



Routledge

June 2020: 216x138: 132pp

Hb: 978-0-815-35684-4: **£46.99**

Pb: 978-0-367-60669-5: **£17.99**

eBook: 978-1-351-12708-0

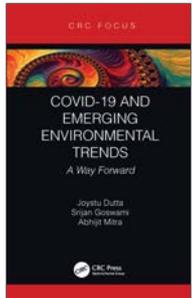
\* For full contents and more information, visit: [www.routledge.com/9780367606695](http://www.routledge.com/9780367606695)

Edited by Bruno Takahashi and Sonny Rosenthal

This volume aims to improve our understanding of culturally bounded rationalities across racial and ethnic groups facing environmental challenges. The ideas presented in this book dovetail with the idea that environmental communication scholars and practitioners can effectively intervene to engage ethnic groups that traditionally are not included in decision making or deliberation processes that directly affect their livelihoods. This book will be of great interest to students, scholars and practitioners of environmental communication.

## COVID-19 and Emerging Environmental Trends

A Way Forward



Joystu Dutta, Sant Gahira Guru University, Chhattisgarh, India, Srijan Goswami, Indian School of Complementary Therapy & Allied Sciences, India and Abhijit Mitra, Department of Marine Science, University of Calcutta, Kolkata, India

This book revolves around the COVID-19 and its influence on all biotic and abiotic components on earth, with focus on regulatory role of air quality during this pandemic, municipal solid waste management and COVID-19, how herd immunity influences COVID-19 and so on. With amalgamation of emerging environmental issues and the direct and indirect influences of COVID-19 on all these issues, it explains how pandemics change our thought and reset our priorities for action on a global scale. The book also explains control and mitigation of COVID-19 and

cutting-edge research on COVID-19 with an empirical review on scientific efforts.

CRC Press

**Market:** Environmental Sciences

November 2020: 216x138: 139pp

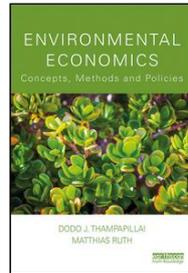
Hb: 978-0-367-62321-0: **£50.00**

eBook: 978-1-003-10888-7

\* For full contents and more information, visit: [www.crcpress.com/9780367623210](http://www.crcpress.com/9780367623210)

## Environmental Economics

Concepts, Methods and Policies



economics in general.

Routledge

**Market:** Environment/Economics/Policy

May 2019: 234x156: 324pp

Hb: 978-1-138-06003-6: **£120.00**

Pb: 978-1-138-06005-0: **£34.99**

eBook: 978-1-315-16324-6

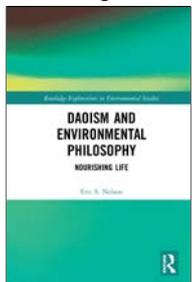
\* For full contents and more information, visit: [www.routledge.com/9781138060050](http://www.routledge.com/9781138060050)

Dodo J. Thampapillai and Matthias Ruth, University of York, United Kingdom

*Environmental Economics* explores the ways in which economic theory and its applications must be modified to explicitly accommodate the goal of sustainability and the vital role played by environmental capital. Divided into five key parts, it drills down into issues and challenges including consumer demand; production and supply; market organisation; renewable and non-renewable resources; environmental valuation; macroeconomic stabilisation, and international trade and globalisation. This textbook will be a vital resource for upper-level undergraduate and postgraduate students studying not only environmental economics/ecological economics but also

## Daoism and Environmental Philosophy

Nourishing Life



Eric S. Nelson

*Series: Routledge Explorations in Environmental Studies*

Daoism and Environmental Philosophy explores ethics and the philosophy of nature in the *Daodejing*, the *Zhuangzi*, and related texts to elucidate their potential significance in our contemporary environmental crisis. The author explores critical and transformative dimensions of early Daoism to provide exemplary models and insights for cultivating a more expansive ecological ethos, environmental culture of nature, and political ecology. This work will be of interest to students and scholars interested in philosophy, environmental ethics and philosophy, and religious studies, and intellectual history.

Routledge

**Market:** Urban Studies / Urban Sustainability

October 2020: 234x156: 156pp

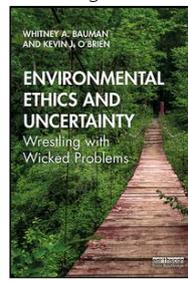
Hb: 978-0-367-02514-4: **£120.00**

eBook: 978-0-429-39914-5

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## Environmental Ethics and Uncertainty

Wrestling with Wicked Problems



Routledge

**Market:** Ethics / Environmental Ethics

August 2019: 234x156: 160pp

Hb: 978-0-367-25911-2: **£120.00**

Pb: 978-0-367-25914-3: **£32.99**

eBook: 978-0-429-29050-3

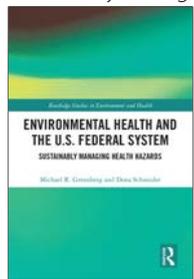
\* For full contents and more information, visit: [www.routledge.com/9780367259143](http://www.routledge.com/9780367259143)

Whitney A. Bauman and Kevin J. O'Brien

This book offers a multidisciplinary (theology, philosophy, and sociology) environmental approach to ethics in response to the contemporary challenge of climate change caused by globalized economics and consumption. This book synthesises the incredible complexity of the problem and the necessity of action in response, highlighting the unambiguous problem facing humanity in the 21st century, but arguing that it is essential to develop an ethics housed in ambiguity in response.

## Environmental Health and the U.S. Federal System

Sustainably Managing Health Hazards



Michael R Greenberg and Dona Schneider, Edward J. Bloustein School of Planning and Public Policy, USA  
*Series: Routledge Studies in Environment and Health*

This book explains how the U.S. federal system manages environmental health issues, with a unique focus on risk management and human health outcomes. This book will be essential reading for students and scholars working on environmental health and environmental policy, particularly from a public health, and risk management viewpoint, in addition to practitioners and policymakers involved in environmental management and public policy.

Routledge

Market: Environmental Health / Federalism / Hazards

July 2019: 234x156: 306pp

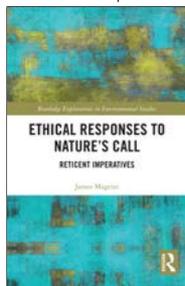
Hb: 978-0-367-20995-7: £120.00

eBook: 978-0-429-26475-7

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## Ethical Responses to Nature's Call

Reticent Imperatives



James Magrini

Arguing for a renewed view of objects and nature, *Ethical Responses to Nature's Call* considers how it is possible to understand our ethical duties - in the form of ethical intuitionism - to nature and the planet by listening to and releasing ourselves over to the call or address of nature. This renewed vision of the *human-and-nature* provides direction for our interaction with and behaviour towards nature in such a way that the ethical insight offers a diagnosis and provides a potentially compelling prescriptive for environmental ills.

Routledge

December 2020: 234x156: 208pp

Hb: 978-1-138-36789-0: £120.00

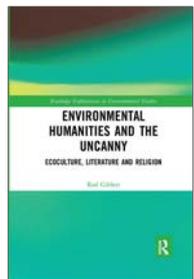
Pb: 978-0-367-72822-9: £36.99

eBook: 978-0-429-42956-9

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## Environmental Humanities and the Uncanny

Ecoculture, Literature and Religion



Rod Giblett

Sigmund Freud's essay on the uncanny is celebrating a century. It is arguably his greatest and most fruitful contribution to the study of culture and the environment. *Environmental Humanities and the Uncanny* brings into the open neglected aspects of the uncanny in Freud's famous essay in its centenary year and in the work of those before and after him, such as Friedrich Schelling, Walter Benjamin, E. T. A. Hoffmann and Bram Stoker.

Routledge

December 2020: 234x156: 154pp

Hb: 978-0-367-18148-2: £120.00

Pb: 978-0-367-73026-0: £36.99

eBook: 978-0-429-05975-9

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2nd Edition

## Evaluating Environment in International Development



Edited by Juha I. Uitto

This book provides novel and in-depth perspectives on evaluating environment and sustainability issues in developing countries. This new edition reflects on the 2030 Agenda for Sustainable Development and Sustainable Development Goals. Significantly updated throughout to reflect recent developments in climate change research, and on the implications of the 2020 pandemic, this volume will be of great interest to students and scholars of environment studies, development studies, international relations, sustainable development and evaluation, as well as practitioners in international organizations and development and environmental NGOs.

Routledge

Market: Development Studies/Environment and Sustainability

March 2021: 234x156: 336pp

Hb: 978-0-367-55709-6: £120.00

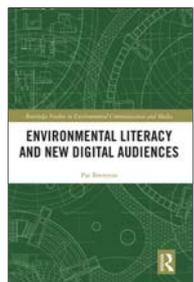
Pb: 978-0-367-55711-9: £34.99

eBook: 978-1-003-09482-1

Prev. Ed Pb: 978-0-415-74289-4

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## Environmental Literacy and New Digital Audiences



Pat Brereton

Exploring the growing power and influence of media formats and outlets like YouTube and gaming, alongside fictional and documentary film, this book considers new modes of environmental literacy to ascertain the effectiveness of digital and filmic stimuli on an audience's perception of environmental issues, and its specific impact on environmental action. Drawing on rich empirical data from research carried out in the US and Europe, Brereton establishes how environmental narratives and meanings are created and being received by contemporary audiences.

Routledge

September 2020: 234x156: 222pp

Hb: 978-1-138-04925-3: £120.00

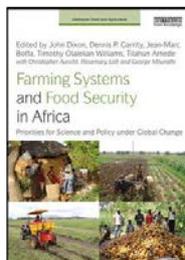
Pb: 978-0-367-66388-9: £36.99

eBook: 978-1-315-16968-2

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## Farming Systems and Food Security in Africa

Priorities for Science and Policy Under Global Change



Edited by John Dixon, ACIAR, Australia, Dennis P. Garrity, Jean-Marc Boffa, Timothy O. Williams, Tilahun Amede, and Christopher Auricht, Rosemary Lott and George Mburathi  
*Series: Earthscan Food and Agriculture*

Africa has an immense variety of farming systems. Knowledge of these complex systems, set in their socio-economic and environmental context, is an essential ingredient to developing effective strategies for improving food and nutrition security. This book systematically and comprehensively describes and classifies

the characteristics, trends, drivers of change and strategic priorities for each of thirteen African farming systems and their main subsystems. Highly illustrated in full colour throughout, it provides an essential follow-up to and application of the seminal work *Farming Systems and Poverty* by Dixon and colleagues (FAO/World Bank, 2001).

Routledge

Market: Food & Agriculture / Environment & Sustainability / African Studies

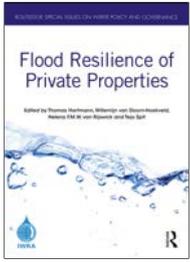
December 2019: 246x174: 674pp

Hb: 978-1-138-96335-1: £120.00

eBook: 978-1-315-65884-1

\* For full contents and more information, visit: [www.routledge.com/9781138963351](http://www.routledge.com/9781138963351)

## Flood Resilience of Private Properties



Edited by **Thomas Hartmann**, Utrecht University, Netherlands, **Willemijn van Doorn-Hoekveld**, **Helena F.M.W. van Rijswijk** and **Tejo Spit**

*Series: Routledge Special Issues on Water Policy and Governance*

Flood Resilience of Private Properties examines the division and balance of responsibilities between the public and the private when discussing flood resilience of private properties. Political and societal systems influence the action citizens are prepared to take and what they expect their governments to do. The responsibility for implementing such measures is shared between the public and the private domain in different degrees in different countries.

This book was originally published as a special issue of *Water International*

Routledge

**Market:** Environment and Sustainability

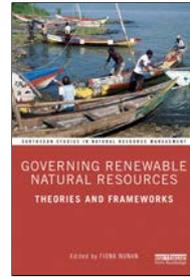
November 2020: 246x174: 168pp

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## Governing Renewable Natural Resources

Theories and Frameworks



Edited by **Fiona Nunan**

*Series: Earthscan Studies in Natural Resource Management*

In one volume, this book brings together a diversity of approaches, theory and frameworks that can be used to analyse the governance of renewable natural resources. The book serves as an essential introduction to the governance of renewable natural resources for students, researchers and practitioners.

Routledge

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Hb: 978-0-367-14669-6: **£120.00**

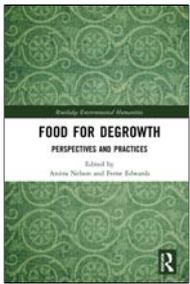
Pb: 978-0-367-14670-2: **£34.99**

eBook: 978-0-429-05300-9

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## Food for Degrowth

Perspectives and Practices



Edited by **Anitra Nelson** and **Ferne Edwards**, Trinity College, Dublin

*Series: Routledge Environmental Humanities*

This book investigates applications of degrowth in a range of geographic, practical and theoretical contexts along the food chain. Degrowth challenges growth and advocates for everyday practices that limit socio-metabolic energy and material flows within planetary constraints. As such, the editors intend to map possibilities for food for degrowth to become established as a field of studies. This book will be of interest to students and scholars of critical food studies, sustainability studies, urban political ecology, geography, environmental studies such as environmental sociology, anthropology, ethnography, ecological

economics and urban design and planning.

Routledge

**Market:** Environment / Food

November 2020: 234x156: 258pp

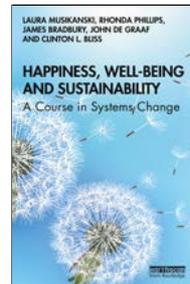
Hb: 978-0-367-43646-9: **£120.00**

eBook: 978-1-003-00482-0

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## Happiness, Well-being and Sustainability

A Course in Systems Change



**Laura Musikanski**, **Rhonda Phillips**, **James Bradbury**, **John de Graaf** and **Clinton L. Bliss**

*Happiness, Well-being and Sustainability* is the first textbook bridging the gap between personal happiness and sustainable social change, providing a guide for students to increase their skills, literacy and knowledge about connections between a sense of well-being and systems change. The book is broken down into seven sections covering the subjects of systems thinking, personal and societal values, measuring happiness, human needs, ecological sustainability, and public policy. Written in a style that is approachable and accessible, this book provides essential reading for students in courses on happiness, social change, and sustainability studies.

Routledge

**Market:** Environment / Mental Health

July 2020: 216x138: 216pp

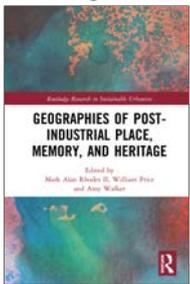
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## Geographies of Post-Industrial Place, Memory, and Heritage



Edited by **Mark Alan Rhodes II**, **William R. Price** and **Amy Walker**

*Series: Routledge Research in Sustainable Urbanism*

This book investigates the overlap of memory and the impacts of industrialization within today's communities and the senses of place and heritage which grew alongside and in reaction to the growth of mines, mills, and factories. While based in the traditions of geography, this collection also draws upon and will be of great interest to students and scholars of cultural anthropology, archaeology, sociology, history, architecture, civil engineering, and heritage, memory, museum, and tourism studies. Using global examples, the authors provide a uniquely geographic understanding to industrial heritage across the

spaces, places, and memories of industrial development.

Routledge

**Market:** Environment / Geography

November 2020: 234x156: 216pp

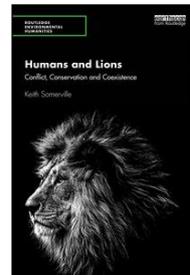
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## Humans and Lions

Conflict, Conservation and Coexistence



**Keith Somerville**

*Series: Routledge Environmental Humanities*

This book places lion conservation and the relationship between people and lions both in historical context and in the context of the contemporary politics of conservation in Africa. The killing of Cecil the Lion in July 2015 brought such issues to the public's attention. This book will be of interest to students and scholars of environmental and African history, wildlife conservation, environmental management and political ecology, as well as the general reader.

Routledge

**Market:** Environment / Sustainability

July 2019: 234x156: 260pp

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Pb: 978-1-138-55803-8: **£34.99**

eBook: 978-1-315-15118-2

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## Imagining Climate Engineering

Dreaming of the Designer Climate

Jeroen Oomen

This book highlights the increasing attention for climate engineering, a set of speculative technologies aimed to counter global warming. What is the future of the global climate? And who gets to decide—or even design—this future? Marrying science and technology studies and the environmental humanities, Oomen provides crucial insights for the future of the climate change debate for scholars and students.

Routledge

Market: Environment / Climate Change

May 2021: 234x156: 216pp

Hb: 978-0-367-48931-1: £120.00

eBook: 978-1-003-04355-3

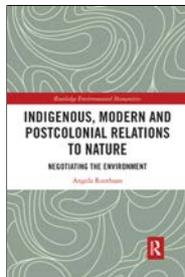
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## Indigenous, Modern and Postcolonial Relations to Nature

Negotiating the Environment

Angela Roothaan

*Indigenous, Modern and Postcolonial Relations to Nature* contributes to the young field of intercultural philosophy by introducing the perspective of critical and postcolonial thinkers who have focused on systematic racism, power relations, and the intersection of cultural identity and political struggle.



Routledge

December 2020: 234x156: 180pp

Hb: 978-1-138-33777-0: £120.00

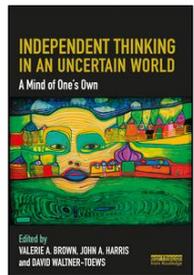
Pb: 978-0-367-72849-6: £36.99

eBook: 978-0-429-44216-2

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## Independent Thinking in an Uncertain World

A Mind of One's Own



Edited by Valerie A. Brown, John A. Harris and David Waltner-Toews

*Independent Thinking in an Uncertain World* explores workable, field-tested strategies from the frontiers of creating a viable future for humans on Earth. Based on research results from hundreds of social learning workshops with communities world-wide, many of them part of Australian National University's Local Sustainability Project, authors with diverse interests explore the gap between open-minded individual thinking and closed socially-defined knowledges. The multiple dimensions of individual, social and biophysical ways of thinking are combined in ways that allow open-minded individuals to learn from each other.

Routledge

Market: Environment / Sustainability

May 2019: 234x156: 364pp

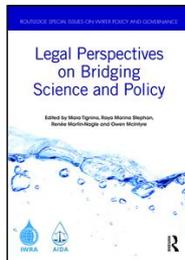
Hb: 978-1-138-38721-8: £120.00

Pb: 978-1-138-38722-5: £38.99

eBook: 978-0-429-42640-7

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## Legal Perspectives on Bridging Science and Policy



Edited by Mara Tignino, Raya Marina Stephan, Renée Martin-Nagle and Owen McIntyre

Series: *Routledge Special Issues on Water Policy and Governance*

This book deals with the interaction of science and policy from a legal perspective. Expert contributors outline the role of law in water management and suggest solutions to make laws flexible and adaptive to changes in scientific knowledge and environmental, social and economic conditions. Each chapter addresses the topic with a different focus and offers an in-depth analysis of legal challenges related to the creation of interdisciplinary bridge, clarifying how science may be assimilated into decision-making processes and can thereby contribute to build evidence-based policies.

Routledge

Market: Water / Environment / Law / Policy

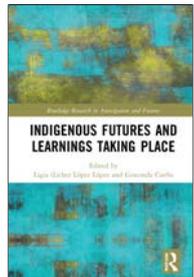
November 2019: 246x174: 142pp

Hb: 978-0-367-40685-1: £120.00

eBook: 978-0-367-80850-1

\* For full contents and more information, visit: [www.routledge.com/9780367406851](http://www.routledge.com/9780367406851)

## Indigenous Futures and Learnings Taking Place



Edited by Ligia (Licho) López López and Gioconda Coello

Series: *Routledge Research in Anticipation and Futures*

This book disrupts the common sense of "learning" and "knowledge for the future" by examining the multiplicity of ways in which these topics are thought about and enacted in Indigenous people's ways of knowing and practice. Experts talk about risk drivers and sustainable agricultural practices with the goal of attaining synergy and a balance between increased productivity and improved ecosystem functions. This book will be of great interest to students and scholars of Indigenous studies, future studies, post-colonial studies in education, settler colonialism and coloniality, diversity and multiculturalism in education, and international comparative education.

Routledge

Market: Education / Indigenous Studies

December 2020: 234x156: 210pp

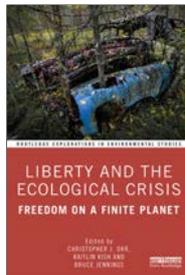
Hb: 978-0-367-89460-3: £120.00

eBook: 978-1-003-01929-9

\* For full contents and more information, visit: [www.routledge.com/9780367894603](http://www.routledge.com/9780367894603)

## Liberty and the Ecological Crisis

Freedom on a Finite Planet



Edited by Christopher J. Orr, Kaitlin Kish and Bruce Jennings

Series: *Routledge Explorations in Environmental Studies*

This book examines the concept of liberty in relation to civilization's ability to live within ecological limits. Mapping out new ways forward for long term ecological well-being, this book is essential reading for students and scholars of ecology, environmental ethics, politics and sociology and for the wider audience interested in the human-earth relationship and global sustainability.

Routledge

Market: Ecology / Environmental Ethics / Liberty

December 2019: 234x156: 290pp

Hb: 978-0-367-33933-3: £120.00

Pb: 978-0-367-34677-5: £36.99

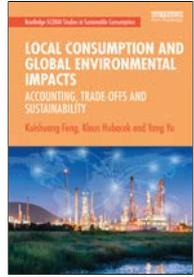
eBook: 978-0-429-32710-0

\* For full contents and more information, visit: [www.routledge.com/9780367346775](http://www.routledge.com/9780367346775)

## Local Consumption and Global Environmental Impacts

Accounting, Trade-offs and Sustainability

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



*Series: Routledge-SCORAI Studies in Sustainable Consumption*

This book describes how local consumption, particularly in urban areas, is increasingly met by global supply chains. These supply chains often extend over large geographical distances and have greater global environmental impacts, contributing to pollution, climate change, water scarcity and deforestation. The book will be key reading for students taking courses in environmental sciences, sustainability sciences, ecological economics and geography.

Routledge

**Market:** Environment & Sustainability / Geography / Economics

August 2019: 234x156: 128pp

Hb: 978-1-138-82605-2: **£120.00**

Pb: 978-1-138-82606-9: **£34.99**

eBook: 978-1-315-73959-5

\* For full contents and more information, visit: [www.routledge.com/9781138826069](http://www.routledge.com/9781138826069)



## Natural Resources and the Environment

Economics, Law, Politics, and Institutions

**Mark Kanazawa**, Carleton College, USA

*Natural Resources and the Environment: Economics, Law, Politics, and Institutions* provides a new approach to the study of environmental and natural resource economics. It takes a multi-disciplinary approach, which is essential for understanding complex environmental problems, and examines the issue from not only an economic perspective, but also taking into account law, politics and institutions. In doing so, it provides students with a realistic understanding of how environmental policy is created and presents a comprehensive examination of real-world environmental policy.

Routledge

**Market:** Natural Resources / Economics

May 2021: 246x174: 376pp

Hb: 978-0-367-07760-0: **£120.00**

Pb: 978-0-367-07761-7: **£32.99**

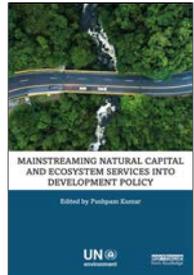
eBook: 978-0-429-02265-4

\* For full contents and more information, visit: [www.routledge.com/9780367077617](http://www.routledge.com/9780367077617)



## Mainstreaming Natural Capital and Ecosystem Services into Development Policy

Edited by **Pushpam Kumar**, UNEP, Kenya



This book highlights the latest advances in the science and practice of using ecosystem services to inform decisions for economic development in the context of the developing countries. *Mainstreaming Natural Capital and Ecosystem Services into Development Policy* is designed to help decision makers at all levels, including governments, businesses, multilevel development banks and individuals, integrate ecosystems and their services into their decision making.

Routledge

**Market:** Economics / Environment & Sustainability / Development Studies

September 2019: 234x156: 308pp

Hb: 978-1-138-69311-1: **£120.00**

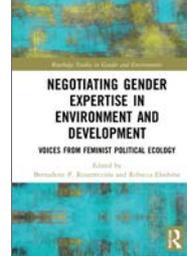
eBook: 978-1-315-53121-2

\* For full contents and more information, visit: [www.routledge.com/9781138693111](http://www.routledge.com/9781138693111)

## Negotiating Gender Expertise in Environment and Development

Voices from Feminist Political Ecology

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



*Series: Routledge Studies in Gender and Environments*

This book casts a light on the daily struggles and achievements of 'gender experts' working in environment and development organisations. Developed through a series of conversations convened by the book's editors with leading practitioners from research, advocacy and donor organisations, this text explores the ways gender professionals deal with personal, power-laden realities associated with navigating gender in everyday practice. 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 2020: 234x156: 272pp

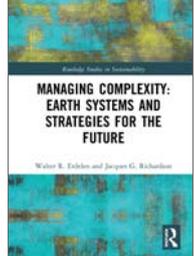
Hb: 978-0-815-38612-4: **£120.00**

eBook: 978-1-351-17518-0

\* For full contents and more information, visit: [www.routledge.com/9780815386124](http://www.routledge.com/9780815386124)

## Managing Complexity: Earth Systems and Strategies for the Future

**Walter R. Erdelen** and **Jacques G. Richardson**



*Series: Routledge Studies in Sustainability*

*Managing Complexity: Earth Systems and Strategies for the Future* introduces and explores systems and complexity in relation to near-synchronous world and environmental problems. The book's conclusions discuss the ambitious yet vital reforms the authors propose as routes to a sustainable existence. This book will be of great interest to students and scholars of sustainability, sustainable development and complexity theory.

Routledge

**Market:** Environment / Sustainability

March 2020: 234x156: 282pp

Hb: 978-0-367-00006-6: **£120.00**

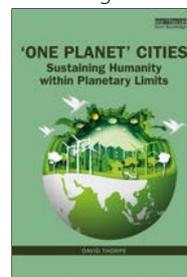
Pb: 978-0-367-50044-3: **£36.99**

eBook: 978-0-429-44505-7

\* For full contents and more information, visit: [www.routledge.com/9780367500443](http://www.routledge.com/9780367500443)

## 'One Planet' Cities

Sustaining Humanity within Planetary Limits



**David Thorpe**

This book addresses the crucial question of how the essential needs of the growing human population can be met without breaking the Earth's already-stretched life-support system. Utilising interviews with key players and case studies from across the globe, David Thorpe examines all aspects of modern society through the critical lens of the ecological footprint and relevant supporting international standards and indicators. This book will be of great interest to practitioners and policymakers involved in governance, administration, urban environments and sustainability, alongside students of the built environment, urban planning, environmental policy and energy.

Routledge

**Market:** Sustainability / Urban Environment

May 2019: 234x156: 330pp

Hb: 978-1-138-61509-0: **£120.00**

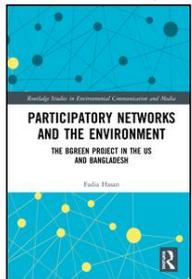
Pb: 978-1-138-61510-6: **£36.99**

eBook: 978-0-429-46340-2

\* For full contents and more information, visit: [www.routledge.com/9781138615106](http://www.routledge.com/9781138615106)

## Participatory Networks and the Environment

The BGreen Project in the US and Bangladesh



Fadia Hasan

This book focusses on the work of The BGreen Project (BGreen): a participatory action research platform that carries out youth-focused activities in Bangladesh and the United States with the aim of addressing environmental issues via community engagement. 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. This book will be of great interest to students and scholars of environmental communication, citizen participation, environmental politics, environmental sociology and sustainable development.

Routledge

June 2020: 234x156: 227pp

Hb: 978-1-138-23473-4: **£120.00**

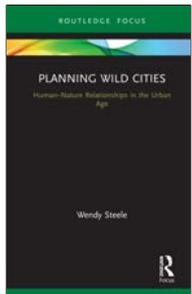
Pb: 978-0-367-58755-0: **£36.99**

eBook: 978-1-315-30623-0

\* For full contents and more information, visit: [www.routledge.com/9780367587550](http://www.routledge.com/9780367587550)

## Planning Wild Cities

Human–Nature Relationships 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

October 2020: 216x138: 158pp

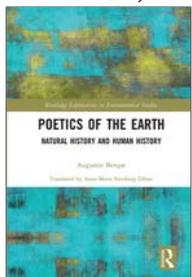
Hb: 978-1-138-91792-7: **£44.99**

eBook: 978-1-315-68875-6

\* For full contents and more information, visit: [www.routledge.com/9781138917927](http://www.routledge.com/9781138917927)

## Poetics of the Earth

Natural History and Human History



Augustin Berque

*Poetics of the Earth* is a work of environmental philosophy, based on a synthesis of Eastern and Western thought on natural and human history. It draws on recent biological research to show how the processes of evolution and history both function according to the same principles. This book will be of great interest to students and scholars of environmental studies, environmental philosophy, Asian studies and the natural sciences.

Routledge

December 2020: 234x156: 226pp

Hb: 978-0-367-20053-4: **£120.00**

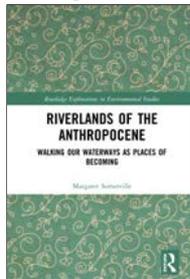
Pb: 978-0-367-72980-6: **£36.99**

eBook: 978-0-429-25938-8

\* For full contents and more information, visit: [www.routledge.com/9780367729806](http://www.routledge.com/9780367729806)

## Riverlands of the Anthropocene

Walking Our Waterways as Places of Becoming



Margaret Somerville

Series: *Routledge Explorations in Environmental Studies*

The book addresses some of the major conceptual challenges of the Anthropocene. Drawing on stories of migration, environmental activism, and encounters with the living beings that inhabit waterways, it considers the personal relationship with urban waterways and how it links to contemporary global issues. The book's unique contribution is the bringing together of Australian Aboriginal knowledge systems with contemporary western philosophies including feminist materialism and rhizomatic geophilosophies. It focuses on Deleuze in particular, and argues that artistic forms, such as visual arts and music, can assist us in thinking beyond the many binaries that constrain

western thought.

Routledge

Market: Environment, Sustainability

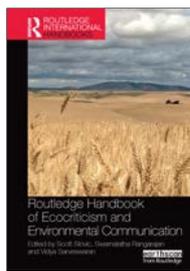
June 2020: 234x156: 222pp

Hb: 978-0-815-39996-4: **£120.00**

eBook: 978-1-351-17112-0

\* For full contents and more information, visit: [www.routledge.com/9780815399964](http://www.routledge.com/9780815399964)

## Routledge Handbook of Ecocriticism and Environmental Communication



Edited by Scott Slovic, Swarnalatha Rangarajan and Vidya Sarveswaran

Ecocriticism and environmental communication studies have for many years co-existed as parallel disciplines, occasionally crossing paths but typically operating in separate academic spheres. These fields are now rapidly converging, and this handbook aims to reinforce the common concerns and methodologies of the sibling disciplines. It will be an essential reference for teachers, students, and practitioners of environmental literature, film, journalism, communication, and rhetoric as well as the broader meta-discipline of environmental humanities.

Routledge

September 2020: 434pp

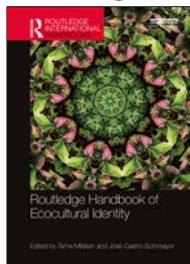
Hb: 978-1-138-05313-7: **£190.00**

Pb: 978-0-367-65958-5: **£39.99**

eBook: 978-1-315-16734-3

\* For full contents and more information, visit: [www.routledge.com/9780367659585](http://www.routledge.com/9780367659585)

## Routledge Handbook of Ecocultural Identity



Edited by Tema Milstein and José Castro-Sotomayor

Series: *Routledge International Handbooks*

Drawing on a diverse range of contributors who utilise an array of multi-disciplinary lenses, this Handbook provides a much-needed reference on the many ways in which individual and collective ecocultural identities are being produced and performed on individual, local, and global scales. Each section includes authoritative grounded theoretical essays and an international range of case studies.

Providing a transdisciplinary overview of this cutting-edge subject, this Handbook will be an essential resource for students and scholars of environmental communication, environmental sociology, human geography and environmental studies more broadly.

Routledge

Market: Environmental Studies/Environmental Communication

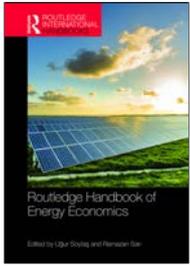
May 2020: 246x174: 522pp

Hb: 978-1-138-47841-1: **£190.00**

eBook: 978-1-351-06884-0

\* For full contents and more information, visit: [www.routledge.com/9781138478411](http://www.routledge.com/9781138478411)

## Routledge Handbook of Energy Economics



Edited by **Uğur Soytas**, Middle East Technical University, Turkey and **Ramazan Sari**, Middle East Technical University, Turkey

*Series: Routledge International Handbooks*

Energy consumption and production have major influences on the economy, environment and society, but in return they are also influenced by how the economy is structured, how the social institutions work, and how the society deals with environmental degradation. The need for integrated assessment of the relationship between energy, economy, environment, and society is clear and this handbook offers an in-depth review of all four pillars of the energy-economy-environment-society

nexus. It will be of great interest to all those studying and researching in the area of energy economic. It offers guidelines and suggestions for policy makers as well as for future research.

Routledge

**Market:** Economics

September 2019: 246x174: 640pp

Hb: 978-1-138-20825-4: **£190.00**

eBook: 978-1-315-45965-3

\* For full contents and more information, visit: [www.routledge.com/9781138208254](http://www.routledge.com/9781138208254)

## Routledge Handbook of Environmental Displacement and Migration



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

*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

**Market:** Environmental Studies/Migration Studies

June 2020: 246x174: 462pp

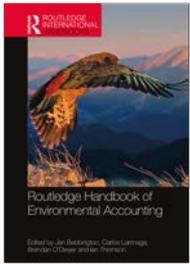
Hb: 978-1-138-19446-5: **£190.00**

Pb: 978-0-367-52150-9: **£39.99**

eBook: 978-1-315-63884-3

\* For full contents and more information, visit: [www.routledge.com/9780367521509](http://www.routledge.com/9780367521509)

## Routledge Handbook of Environmental Accounting



Edited by **Jan Bebbington**, **Carlos Larrinaga**, **Brendan O'Dwyer** and **Ian Thomson**

*Series: Routledge International Handbooks*

This handbook showcases the broad spectrum of diverse approaches to environmental accounting which have developed during the last 30 years across the globe. It covers a range of physical issues such as water, carbon and biodiversity, as well as specific accounting matters such as management control, finance and audit. Edited by leading scholars in the area and with key contributions from across the discipline, and covering a diverse range of perspectives and locations, this handbook will serve as a vital resource for students and scholars of

environmental accounting and environmental economics.

Routledge

**Market:** Environment / Accounting

March 2021: 246x174: 416pp

Hb: 978-0-367-15233-8: **£190.00**

eBook: 978-0-367-15236-9

\* For full contents and more information, visit: [www.routledge.com/9780367152338](http://www.routledge.com/9780367152338)

## Routledge Handbook of Environmental Journalism



Edited by **David B. Sachsman** and **JoAnn Myer Valenti**

*Series: Routledge International Handbooks*

This Handbook provides a thorough understanding of environmental journalism around the world. With contributions from across the world broken down into five key regions – the United States of America, Europe and Russia, Asia and Australia, Africa and the Middle East, and South America – it provides support for today's environment reporters, the providers of essential news in the 21st century. As a scholarly and journalistic work written by academics and the environmental reporters themselves, this volume is an essential text for both upper-level undergraduates and postgraduates who study journalism and

global environmental issues.

Routledge

**Market:** Environment and Sustainability/Journalism Studies

April 2020: 246x174: 442pp

Hb: 978-1-138-47850-3: **£190.00**

eBook: 978-1-351-06840-6

\* For full contents and more information, visit: [www.routledge.com/9781138478503](http://www.routledge.com/9781138478503)

## 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.

Routledge

**Market:** Environmental Studies/Security Studies

June 2020: 246x174: 362pp

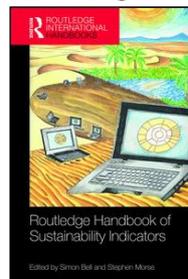
Hb: 978-1-138-20252-8: **£190.00**

Pb: 978-0-367-52152-3: **£39.99**

eBook: 978-1-315-47377-2

\* For full contents and more information, visit: [www.routledge.com/9780367521523](http://www.routledge.com/9780367521523)

## 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 (SIs) as applied in the interdisciplinary field of sustainable development. The editors have sought to include views from the centre ground of SI 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

March 2020: 246x174: 598pp

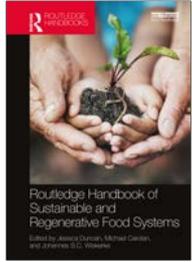
Hb: 978-1-138-67476-9: **£190.00**

Pb: 978-0-367-49755-2: **£39.99**

eBook: 978-1-315-56110-3

\* For full contents and more information, visit: [www.routledge.com/9780367497552](http://www.routledge.com/9780367497552)

## Routledge Handbook of Sustainable and Regenerative Food Systems



Edited by **Jessica Duncan**, Wageningen University, Netherlands, **Michael Carolan**, Colorado State University, USA and **Johannes S.C. Wiskerke**, Wageningen University, The Netherlands

An adequate, just and sustainable food system is one of the major challenges of contemporary global society. This comprehensive Handbook provides a reference text on sustainable food systems, but also goes beyond the boundaries of sustainability, to focus not only on maintaining systems, but also towards practices that build and regenerate ecosystems, communities, and cultures. It is aimed at a wide range of students of food and environmental studies, agriculture, sociology and

geography.

Routledge

**Market:** Food Studies, Agriculture, Environment, Sociology

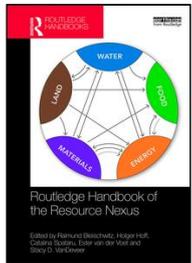
August 2020: 246x174: 478pp

Hb: 978-1-138-60804-7: **£190.00**

eBook: 978-0-429-46682-3

\* For full contents and more information, visit: [www.routledge.com/9781138608047](http://www.routledge.com/9781138608047)

## 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

**Market:** Environment & Sustainability / Geography / Economics / Politics

February 2020: 246x174: 536pp

Hb: 978-1-138-67549-0: **£190.00**

Pb: 978-0-367-50528-8: **£39.99**

eBook: 978-1-315-56062-5

\* For full contents and more information, visit: [www.routledge.com/9780367505288](http://www.routledge.com/9780367505288)

## Smart Green World?

Making Digitalization Work for Sustainability



Edited by **Steffen Lange** and **Tilman Santarius**

*Series: Routledge Studies in Sustainability*

In this book, the authors investigate how digitization can influence environmental and social sustainability. *Smart Green World?* provides guiding principles for sustainable digitalization and develops hands-on proposals that show how politicians, individuals, businesses and civil society actors can help achieve it. It also analyses the ecological and economic implications of digitalization and shows how we can actively shape the digital future in order to make it a driving force for sustainable social transformation. *Smart Green World? Making Digitalization Work for Sustainability* will be of interest to students of sustainability and sustainable development.

Routledge

**Market:** Environment/Sustainability

May 2020: 234x156: 198pp

Hb: 978-0-367-46761-6: **£120.00**

Pb: 978-0-367-46757-9: **£19.99**

eBook: 978-1-003-03088-1

\* For full contents and more information, visit: [www.routledge.com/9780367467579](http://www.routledge.com/9780367467579)



## Social Movements Contesting Natural Resource Development



Edited by **John F. Devlin**, University of Guelph, Canada

*Series: Earthscan Studies in Natural Resource Management*

Presenting a broad range of case studies, this book explores rural social movements contesting natural resource development initiatives. This book will be key reading for scholars interested in social movements, natural resource development, environmental policy and development studies. It will also be of interest to activists engaged in mobilizations stimulated by natural resource development projects.

Routledge

**Market:** Sociology, Environment, Politics

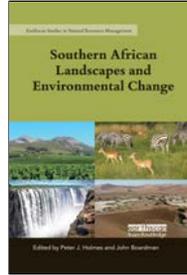
October 2019: 234x156: 208pp

Hb: 978-1-138-06473-7: **£120.00**

eBook: 978-1-315-16013-9

\* For full contents and more information, visit: [www.routledge.com/9781138064737](http://www.routledge.com/9781138064737)

## Southern African Landscapes and Environmental Change



Edited by **Peter J. Holmes** and **John Boardman**

This volume provides both a textbook and reference work on the physical and biotic landscapes of Southern Africa, and how these environments are subject to change. It covers geomorphology, soils, vegetation and land use, and how these are subject to climate change and other factors across a range of landscapes, including mountains, coasts, savannah, drylands and wetlands in South Africa, Botswana, Mozambique and Zimbabwe.

Routledge

August 2020: 234x156: 328pp

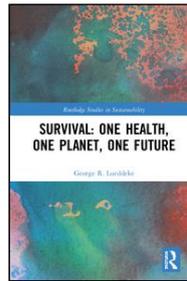
Hb: 978-1-138-68895-7: **£120.00**

Pb: 978-0-367-58888-5: **£36.99**

eBook: 978-1-315-53797-9

\* For full contents and more information, visit: [www.routledge.com/9780367588885](http://www.routledge.com/9780367588885)

## Survival: One Health, One Planet, One Future



George R. Lueddeke

*Series: Routledge Studies in Sustainability*

This volume covers diverse topics such as environmental degradation, modern life, conscious capitalism, robotics, the financing of war (vs peace), human rights and UN, OECD and One Health educational developments. The author contends that the seventeen UN-2030 Sustainable Development Goals alongside the One Health concept – that recognises the unifying interconnection of humans, animals, plants and the environment (natural and built) – hold the key for transformative or second-order change.

Routledge

**Market:** Environment / Sustainability

March 2020: 234x156: 254pp

Hb: 978-1-138-33495-3: **£120.00**

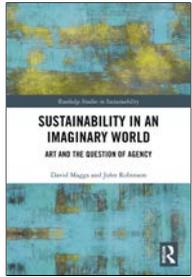
Pb: 978-0-367-50063-4: **£36.99**

eBook: 978-0-429-44408-1

\* For full contents and more information, visit: [www.routledge.com/9780367500634](http://www.routledge.com/9780367500634)

## Sustainability in an Imaginary World

Art and the Question of Agency



David Maggs and John Robinson

Series: *Routledge Studies in Sustainability*

*Sustainability in an Imaginary World* explores the social agency of art and its connection to complex issues of sustainability. This book will be of great interest to students and scholars of arts-based research fields, sustainability studies, and environmental humanities.

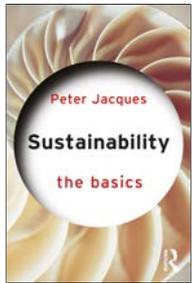
Routledge

Market: Arts / Sustainability  
January 2020: 234x156: 264pp  
Hb: 978-0-367-36515-8: £120.00  
eBook: 978-0-429-34658-3

\* For full contents and more information, visit: [www.routledge.com/9780367365158](http://www.routledge.com/9780367365158)

2nd Edition

## Sustainability: The Basics



Peter Jacques, University of Central Florida, USA

Series: *The Basics*

This book offers an accessible and interdisciplinary introduction to sustainability and discusses key concepts such as the core principles of sustainability, the key ethical considerations for questions of sustainability, how we measure sustainability, the critical obstacles to achieving global sustainability and what happens when societies fail to observe principles of sustainability. With new coverage including the Sustainable Development Goals, a global range of case studies, the second edition also proposes a new, "sustainable humanism" that animates much of our work to make a better, more humane world.

Routledge

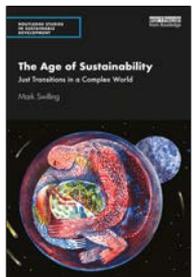
Market: Environment / Sustainability  
December 2020: 198x129: 256pp  
Hb: 978-0-367-36516-5: £84.99  
Pb: 978-0-367-36517-2: £16.99  
eBook: 978-0-429-34661-3  
Prev. Ed Pb: 978-0-415-60848-0

\* For full contents and more information, visit: [www.routledge.com/9780367365172](http://www.routledge.com/9780367365172)



## The Age of Sustainability

Just Transitions in a Complex World



Mark Swilling, University of Stellenbosch, South Africa

Series: *Routledge Studies in Sustainable Development*

With transitions to more sustainable ways of living already underway, this book examines how we understand the underlying dynamics of the transitions that are unfolding. Without this understanding, we enter the future in a state of informed bewilderment. Shedding light on the highly complex challenge of a sustainable and just transition, this book is essential reading for anyone concerned with establishing a more sustainable and equitable world. Ultimately, this is a book about hope, but without easy answers.

Routledge

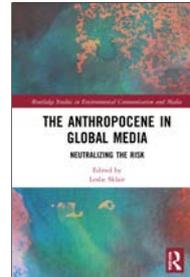
Market: Just Transitions / Sustainability  
November 2019: 234x156: 350pp  
Hb: 978-0-367-17815-4: £120.00  
Pb: 978-0-367-17816-1: £34.99  
eBook: 978-0-429-05782-3

\* For full contents and more information, visit: [www.routledge.com/9780367178161](http://www.routledge.com/9780367178161)



## The Anthropocene in Global Media

Neutralizing the risk



Edited by Leslie Sklair

Series: *Routledge Studies in Environmental Communication and Media*

This book offers the first systematic study of how the 'Anthropocene' is reported in mass media globally, drawing parallels between the use (or misuse) of the term and the media's attitude towards the associated issues of climate change and global warming.

*The Anthropocene in Global Media* will be of interest to students and scholars of environmental studies, media and communication studies, and the environmental humanities, as well as those who are concerned about the survival of humans

on planet Earth.

Routledge

Market: Environment / Media  
November 2020: 234x156: 286pp  
Hb: 978-0-367-37597-3: £115.00  
eBook: 978-0-429-35520-2

\* For full contents and more information, visit: [www.routledge.com/9780367375973](http://www.routledge.com/9780367375973)

## The Bioeconomy Approach

Constraints and Opportunities for Sustainable Development



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

Series: *Routledge Studies in Food, Society and the Environment*

This book examines the bioeconomy concept, analysing the opportunities it can generate, the constraints and the potential benefits for society. While research and literature related to bioeconomy is limited as of today, this book presents a unique collection of perspectives on the complex dimensions of the bioeconomy debate. Drawing on experiences from Europe, Asia and Africa it presents an international overview. The volume will be of great interest to students and scholars of ecological

economics, development economics and environmental economics, as well as policymakers and practitioners in sustainable development.

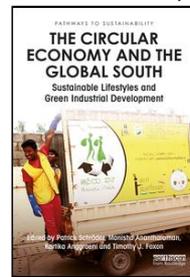
Routledge

Market: Bioeconomics / Sustainable Development  
March 2020: 234x156: 288pp  
Hb: 978-0-367-33571-7: £120.00  
eBook: 978-0-429-32065-1

\* For full contents and more information, visit: [www.routledge.com/9780367335717](http://www.routledge.com/9780367335717)

## The Circular Economy and the Global South

Sustainable Lifestyles and Green Industrial Development



Edited by Patrick Schröder, Manisha Anantharaman, Kartika Anggraeni and Timothy J. Foxon

Series: *Pathways to Sustainability*

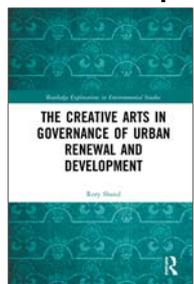
This book examines the relevance of the circular economy in the context of developing countries, something which to date is little understood. It illustrates, using case studies including Argentina, Brazil, China, Colombia, India, Indonesia, Kenya, South Africa, and Thailand, how the circular economy can be used as a new lens and possible solution to cross-cutting development issues of pollution and waste, employment, health, urbanisation and green industrialisation. This book is relevant to students and scholars studying sustainability in economics, business studies, environmental politics and development studies.

Routledge

Market: Circular Economy / Sustainability  
April 2019: 234x156: 238pp  
Hb: 978-1-138-35892-8: £120.00  
Pb: 978-1-138-35893-5: £34.99  
eBook: 978-0-429-43400-6

\* For full contents and more information, visit: [www.routledge.com/9781138358935](http://www.routledge.com/9781138358935)

## The Creative Arts in Governance of Urban Renewal and Development

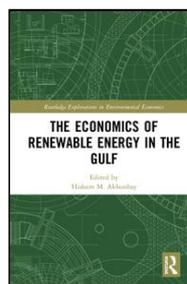


Rory Shand, Manchester Metropolitan University, UK  
*Series: Routledge Explorations in Environmental Studies*  
 Drawing on case studies from the UK, Germany and Canada, this book compares national creative arts bodies engaged in the governance of regeneration programmes, as well as including a global chapter offering an overview of best and worst practice, which also examines and summarises the key themes across both theory and practice. This book will be of great interest to students of environmental studies, public policy and politics and geography, as well as a relevant resource for practitioners from NGOs, local and national levels of governments and community projects.

Routledge  
**Market:** Environment, Sustainability  
 August 2020: 234x156: 178pp  
 Hb: 978-1-138-67513-1: **£120.00**  
 eBook: 978-1-315-56082-3

\* For full contents and more information, visit: [www.routledge.com/9781138675131](http://www.routledge.com/9781138675131)

## The Economics of Renewable Energy in the Gulf



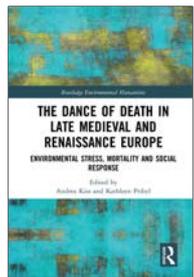
Edited by Hisham M. Akhonbay  
 Having long been at the epicenter of global energy markets due to the abundance of oil, the countries in the Gulf region have also stated their intent to be leaders in renewable energy. In this book, a stellar cast of regional policy and academic experts, explore the drivers for the widespread adoption of renewable energy including increasing populations, the need to diversify the economy, climate change targets. The impediments to success are also considered such as the declining cost of producing energy from hydrocarbons, an infrastructure which needs to be updated and lack of financing. Weighing all this up, the book considers the route forward for renewable energy in the Gulf region.

Routledge  
 June 2020: 234x156: 268pp  
 Hb: 978-1-138-35190-5: **£120.00**  
 Pb: 978-0-367-58495-5: **£36.99**  
 eBook: 978-0-429-43497-6

\* For full contents and more information, visit: [www.routledge.com/9780367584955](http://www.routledge.com/9780367584955)

## The Dance of Death in Late Medieval and Renaissance Europe

Environmental Stress, Mortality and Social Response



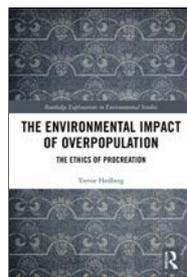
Edited by Andrea Kiss and Kathleen Pribly  
*Series: Routledge Environmental Humanities*  
 This volume investigates environmental and political crisis that occurred in Europe during the late Middle Ages and the early Modern Period, and considers their effects on people's lives. It covers events ranging from cooling temperatures and the onset of the Little Ice Age, to the frequent occurrence of epidemic disease, the infestation of pests, food shortages and famines. This book will be of great interest to students and scholars of Environmental and Climate History, Environmental Humanities, Medieval and Early Modern History and Historical Geography, as well as Climate Change and Environmental Sciences.

Routledge  
**Market:** Environment, Sustainability  
 December 2019: 234x156: 256pp  
 Hb: 978-1-138-59036-6: **£120.00**  
 eBook: 978-0-429-49108-5

\* For full contents and more information, visit: [www.routledge.com/9781138590366](http://www.routledge.com/9781138590366)

## The Environmental Impact of Overpopulation

The Ethics of Procreation



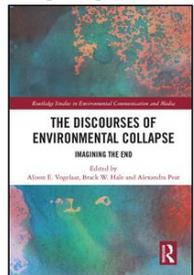
Trevor Hedberg  
*Series: Routledge Explorations in Environmental Studies*  
 This book examines the link between population growth and environmental impact and explores the implications of this connection for the ethics of procreation. Trevor Hedberg argues that we have a collective moral duty to halt population growth to prevent environmental harms from escalating; he assesses a variety of policies that could help us meet this moral duty and sketches the implications of population growth for issues like abortion and immigration. This book will be of great interest to those studying environmental ethics, environmental policy, climate change, sustainability, and population policy.

Routledge  
**Market:** Environmental Ethics / Population  
 April 2020: 234x156: 192pp  
 Hb: 978-1-138-48975-2: **£120.00**  
 eBook: 978-1-351-03702-0

\* For full contents and more information, visit: [www.routledge.com/9781138489752](http://www.routledge.com/9781138489752)

## The Discourses of Environmental Collapse

Imagining the End



Edited by Alison E. Vogelaar, Franklin University, Switzerland, Brack W. Hale, Franklin University, Switzerland and Alexandra Peat, Franklin University, Switzerland  
*Series: Routledge Studies in Environmental Communication and Media*

Given its pervasiveness across disciplines and spheres, this edited volume articulates environmental collapse as a discursive phenomenon worthy of sustained critical attention. The volume is divided into three sections—*Doc-Collapse*, *Pop Collapse* and *Craft Collapse*—that independently explore distinct modes of representing, and implicit attitudes toward, environmental collapse from the lenses of diverse fields of study including

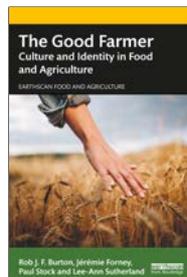
climate science and policy, cinema and photo journalism. Bringing together a broad range of topics and authors, this volume will be of great interest to scholars of environmental communication and environmental humanities.

Routledge  
**Market:** Environment, Sustainability  
 March 2020: 234x156: 216pp  
 Hb: 978-1-138-21714-0: **£120.00**  
 Pb: 978-0-367-50764-0: **£36.99**  
 eBook: 978-1-315-44144-3

\* For full contents and more information, visit: [www.routledge.com/9780367507640](http://www.routledge.com/9780367507640)

## The Good Farmer

Culture and Identity in Food and Agriculture



Rob J.F. Burton, Centre for Rural Research (Bygdeforskning), Norway, Jérémie Forney, University of Neuchâtel, Switzerland, Paul Stock, University of Kansas, USA and Lee-Ann Sutherland, James Hutton Institute, UK  
*Series: Earthscan Food and Agriculture*

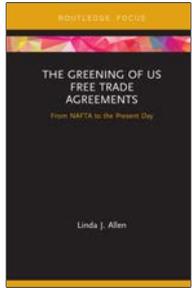
Developed by the leading authors in the field, this book provides a cohesive and definitive theorisation of the concept of the 'good farmer', addressing the blind spots that have sprung up in agri-food literature as well as providing a springboard for future research. This book will be of interest to students and scholars of food and agriculture and rural development, as well as professionals and policymakers involved in the food and agricultural industry.

Routledge  
**Market:** Agriculture / Food Studies / Sociology / Geography  
 September 2020: 234x156: 196pp  
 Hb: 978-1-138-72779-3: **£120.00**  
 Pb: 978-1-138-72796-0: **£34.99**  
 eBook: 978-1-315-19065-5

\* For full contents and more information, visit: [www.routledge.com/9781138727960](http://www.routledge.com/9781138727960)

## The Greening of US Free Trade Agreements

From NAFTA to the Present Day



Linda Allen

Series: *Routledge Focus on Environment and Sustainability*

This book provides an up-to-date critical analysis of the integration of environmental policies into US free trade agreements. The main objective of the book is to inform the ongoing policy debate over integration of environmental policies into trade agreements. Students and scholars of environmental law, trade and economics, and specifically US trade, environmental policy and law will find this book of great interest.

Routledge

Market: Environmental Policy / Trade

June 2020: 216x138: 136pp

Hb: 978-1-138-32179-3: **£46.99**

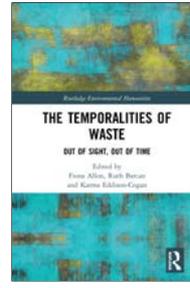
Pb: 978-0-367-51882-0: **£16.99**

eBook: 978-0-429-45241-3

\* For full contents and more information, visit: [www.routledge.com/9780367518820](http://www.routledge.com/9780367518820)

## The Temporalities of Waste

Out of Sight, Out of Time



Edited by Fiona Allon, Ruth Barcan and Karma Eddison-Cogan

Series: *Routledge Environmental Humanities*

This book investigates the complex and unpredictable temporalities of waste. Reflecting on waste in the context of sustainability, materiality, social practices, subjectivity, and environmental challenges, the book covers a wide range of settings, from the municipal garbage crisis in Beirut, to food rescue campaigns in Hong Kong, and the toxic by-products of computer chip production in Silicon Valley. This collection brings together new and cutting-edge research on the temporalities of waste by a diverse range of international authors and will be of interest to students and scholars of the environmental

humanities, cultural studies, anthropology and human geography.

Routledge

Market: Humanities / Environmental Humanities

October 2020: 234x156: 286pp

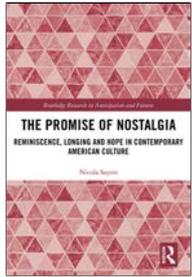
Hb: 978-0-367-32179-6: **£120.00**

eBook: 978-0-429-31717-0

\* For full contents and more information, visit: [www.routledge.com/9780367321796](http://www.routledge.com/9780367321796)

## The Promise of Nostalgia

Reminiscence, Longing and Hope in Contemporary American Culture



Nicola Sayers

Series: *Routledge Research in Anticipation and Futures*

*The Promise of Nostalgia* analyses a range of texts - including *The Virgin Suicides*, both the novel by Jeffrey Eugenides' and Sofia Coppola's screen adaptation - photography of Detroit's 'abandoned spaces', and blogger Tavi Gevinson's media output - to explore nostalgia as a prominent affect in contemporary American cultural production.

Routledge

Market: Environment and Society

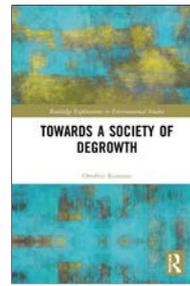
January 2020: 234x156: 226pp

Hb: 978-0-367-13498-3: **£120.00**

eBook: 978-0-367-13499-0

\* For full contents and more information, visit: [www.routledge.com/9780367134983](http://www.routledge.com/9780367134983)

## Towards a Society of Degrowth



Onofrio Romano

Series: *Routledge Explorations in Environmental Studies*

This book explores the degrowth/post-growth movement from a sociological perspective. It begins by exploring the anthropological, political and institutional features of the growth movement, critiquing it as a regime that has inspired an obsessive focus on production and consumption. It then explores the ideals of degrowth, focussing in particular on the theory of 'dépense' as developed by Georges Bataille. *The Society of Degrowth* will be of great interest to students and scholars of degrowth, social anthropology, political ecology and ecological economics.

Routledge

Market: Sociology / ecological economics

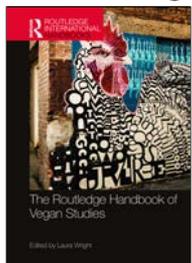
November 2019: 234x156: 148pp

Hb: 978-1-138-54340-9: **£120.00**

eBook: 978-1-351-00594-4

\* For full contents and more information, visit: [www.routledge.com/9781138543409](http://www.routledge.com/9781138543409)

## The Routledge Handbook of Vegan Studies



Edited by Laura Wright

Series: *Routledge International Handbooks*

This wide-ranging volume explores the tension between the dietary practice of veganism and the manifestation, construction, and representation of a vegan identity in today's society. This handbook is divided into five parts, including: History of Vegan Studies; Vegan Studies in the Disciplines; Theoretical Intersections; Contemporary Media Entanglements; Veganism Around the World. The sections contextualize veganism beyond its status as a dietary choice, situating veganism within broader social, ethical, legal, theoretical, and artistic discourses.

Routledge

Market: Environment / Vegan Studies

March 2021: 246x174: 440pp

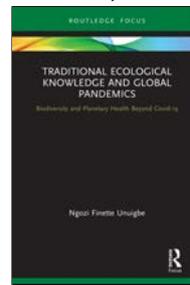
Hb: 978-0-367-89746-8: **£190.00**

eBook: 978-1-003-02087-5

\* For full contents and more information, visit: [www.routledge.com/9780367897468](http://www.routledge.com/9780367897468)

## Traditional Ecological Knowledge and Global Pandemics

Biodiversity and Planetary Health Beyond Covid-19



Ngozi Finette Unuigbo

Series: *Routledge Focus on Environment and Sustainability*

This book demonstrates the importance and potential role of Traditional Ecological Knowledge in foreseeing and curbing future global pandemics. This book will be of great interest to students and scholars of traditional ecological knowledge, indigenous studies, animal ecology, environmental ethics and environmental studies more broadly.

Routledge

Market: Ecology / Indigenous Peoples / Ethics

March 2021: 216x138: 104pp

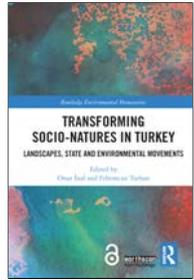
Hb: 978-0-367-69294-0: **£44.99**

eBook: 978-1-003-14128-0

\* For full contents and more information, visit: [www.routledge.com/9780367692940](http://www.routledge.com/9780367692940)

## Transforming Socio-Natures in Turkey

Landscapes, State and Environmental Movements



Edited by **Onur Inal** and **Ethemcan Turhan**  
Series: *Routledge Environmental Humanities*

This book is an exploration of the environmental makings and contested historical trajectories of environmental change in Turkey. Despite the recent proliferation of studies on the political economy of environmental change and urban transformation, until now there has not been a sufficiently complete treatment of Turkey's troubled environments, which live on the edge both geographically and politically. This book will be of interest not only to students of Turkey from a variety of social science and humanities disciplines but also contribute to the larger debates on environmental change and developmentalism in the context of a global populist turn.

Routledge

**Market:** Environment / Environmental History

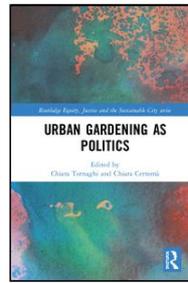
July 2019: 234x156: 242pp

Hb: 978-1-138-36769-2: **£120.00**

eBook: 978-0-429-42969-9

\* For full contents and more information, visit: [www.routledge.com/9781138367692](http://www.routledge.com/9781138367692)

## Urban Gardening as Politics



Edited by **Chiara Tornaghi**, Research Fellow in Urban Food Sovereignty and Resilience at the Centre for Agroecology, Water and Resilience, Coventry University and **Chiara Certomà**

Series: *Routledge Equity, Justice and the Sustainable City series*

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

December 2020: 234x156: 236pp

Hb: 978-0-415-79380-3: **£120.00**

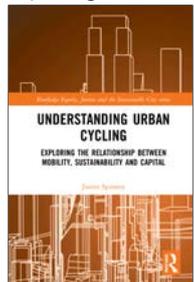
Pb: 978-0-367-50039-9: **£36.99**

eBook: 978-1-315-21088-9

\* For full contents and more information, visit: [www.routledge.com/9780367500399](http://www.routledge.com/9780367500399)

## Understanding Urban Cycling

Exploring the Relationship Between Mobility, Sustainability and Capital



**Justin Spinney**

Series: *Routledge Equity, Justice and the Sustainable City series*

Based upon primary research in a variety of contexts such as London, Shanghai and Taipei, this book demonstrates that recent developments in urban cycling policy and practice are closely linked to broader processes of capital accumulation. The central argument of the book is not that the popularisation of cycling is inherently bad, but that the manner in which cycling is being popularised gives cause for social and environmental concern. Ultimately the book suggests that cycling has now become a vehicle for sustaining pro-growth agendas rather than subverting them or shifting to sustainable no-growth/de-growth and less technologically driven visions of modernity.

Routledge

**Market:** Environment, Sustainability

October 2020: 234x156: 234pp

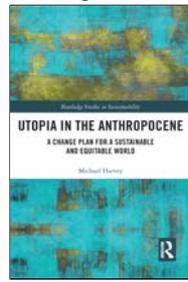
Hb: 978-1-138-54322-5: **£120.00**

eBook: 978-1-351-00712-2

\* For full contents and more information, visit: [www.routledge.com/9781138543225](http://www.routledge.com/9781138543225)

## Utopia in the Anthropocene

A Change Plan for a Sustainable and Equitable World



**Michael Harvey**, Interactional Coaching, London, UK

Series: *Routledge Studies in Sustainability*

*Utopia in the Anthropocene* takes a cross-disciplinary approach to analyse our current world problems, identify the key resistance to change and take the reader step-by-step towards a more sustainable, equitable, and rewarding world. It presents paradigm-shifting models of economics, political decision-making, business organization, and leadership and community life. These are supported by psychological evidence, utopian literature and inspirational changes in history.

Routledge

**Market:** Sustainability / Sustainable Development

June 2020: 234x156: 308pp

Hb: 978-1-138-31111-4: **£120.00**

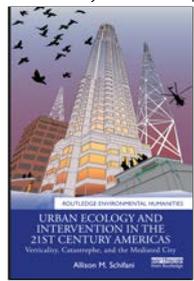
Pb: 978-0-367-61484-3: **£36.99**

eBook: 978-0-429-45905-4

\* For full contents and more information, visit: [www.routledge.com/9780367614843](http://www.routledge.com/9780367614843)

## Urban Ecology and Intervention in the 21st Century Americas

Verticality, Catastrophe, and the Mediated City



**Allison M. Schifano**

Series: *Routledge Environmental Humanities*

This book argues that imagining catastrophe can offer alternatives to and critiques of capitalist logics in the urban world, taking a hemispheric approach to contemporary urban intervention, examining urban ecologies, communication technologies, and cultural practices in the 21st century. Schifano explores a range of resistant urban interventions, imagining the city as on the verge of or enmeshed in catastrophe. This book will be of great interest to students and scholars of Urban Studies, Media Studies, American Studies, Global Studies, and the broad and interdisciplinary field of Environmental Humanities.

Routledge

**Market:** Environment / Environmental Humanities

December 2020: 234x156: 150pp

Hb: 978-0-367-51937-7: **£120.00**

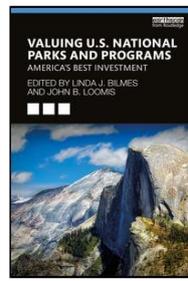
Pb: 978-0-367-51936-0: **£34.99**

eBook: 978-1-003-05574-7

\* For full contents and more information, visit: [www.routledge.com/9780367519360](http://www.routledge.com/9780367519360)

## Valuing U.S. National Parks and Programs

America's Best Investment



**Linda J. Bilmes**, Harvard University, USA and **John B. Loomis**, Colorado State University, USA

This book provides the first comprehensive economic valuation of US National Parks (including Monuments, Seashores, Lakeshores, Recreation Areas, Historic sites) and National Park Service Programs. Containing a series of unique case studies, this book will be of great interest to professionals and students in environmental economics, land management and nature conservation, as well as the more general reader interested in National Parks.

Routledge

**Market:** Environment, Economics, Tourism

July 2019: 234x156: 186pp

Hb: 978-1-138-48310-1: **£120.00**

Pb: 978-1-138-48312-5: **£34.99**

eBook: 978-1-351-05578-9

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## What Can I Do to Help Heal the Environmental Crisis?



Haydn Washington

Series: *Routledge Explorations in Environmental Studies*

The culmination of over three decades of writing by environmental scientist and writer Haydn Washington, this book examines the global environmental crisis and its solutions. Framing the discussion around three central predicaments - the ecological, the social, and the economic - Washington provides background as to why each of these are in crisis and presents steps that individuals can personally take to heal the world. With a focus on positive, personal solutions, this book is an essential read for students and scholars of environmental science and environmental philosophy, and for all those keen to heal the world and contribute towards a sustainable future.

Routledge

Market: Environment and Sustainability Studies

October 2019: 234x156: 256pp

Hb: 978-0-367-34252-4: £120.00

Pb: 978-0-367-34253-1: £34.99

eBook: 978-0-429-32466-6

\* For full contents and more information, visit: [www.routledge.com/9780367342531](http://www.routledge.com/9780367342531)



## Writing a New Environmental Era

Moving forward to nature



Ken Hiltner

Series: *Routledge Environmental Humanities*

*Writing a New Environmental Era* considers and then rejects back-to-nature thinking and its proponents like Henry David Thoreau, arguing that human beings have never lived at peace with nature. Using the rise of the automobile and climate change denial literature to explore how our current environmental era was written into existence, Ken Hiltner argues that the humanities need to lead us there.

Routledge

Market: Environment / Environmental Humanities

October 2019: 234x156: 188pp

Hb: 978-0-367-14378-7: £120.00

Pb: 978-0-367-14380-0: £34.99

eBook: 978-0-429-03172-4

\* For full contents and more information, visit: [www.routledge.com/9780367143800](http://www.routledge.com/9780367143800)



## Zero-Waste

Reconsidering Waste Management for the Future



Atiq Zaman, Curtin University, Australia and Tahmina Ahsan

Series: *Routledge Studies in Waste Management and Policy*

This book analyses 'zero waste' as an emerging waste management strategy for the future, which considers waste prevention through innovative design and sustainable consumption practices. Drawing on a diverse range of case studies from the Australia, Bangladesh, Japan, New Zealand, Sweden and the USA, it explores why urban waste management systems still remain a major challenge for almost all cities around the world. This book will be of great relevance to students, scholars and policymakers with an interest in waste management, sustainable consumption, urban planning and sustainable development.

Routledge

Market: Environmental Studies/Waste Management

December 2019: 234x156: 234pp

Hb: 978-1-138-21908-3: £120.00

Pb: 978-1-138-21909-0: £34.99

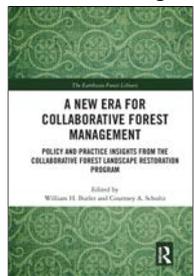
eBook: 978-1-315-43629-6

\* For full contents and more information, visit: [www.routledge.com/9781138219090](http://www.routledge.com/9781138219090)



## A New Era for Collaborative Forest Management

Policy and Practice insights from the Collaborative Forest Landscape Restoration Program



Edited by **William H. Butler** and **Courtney A. Schultz**

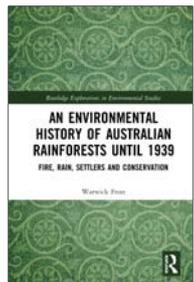
The Collaborative Forest Landscape Restoration Program (CFLRP), which began in 2009, was a bold experiment in public land management in the US and has become a model for a new approach to collaborative environmental governance and management. Bringing together social and political scientists involved in CFLRP, this book addresses what has been learnt through this new way of managing national forests. It will be of interest to researchers in natural resource management, environmental planning and forestry, as well as practitioners and policy makers involved in forest and ecosystem restoration work and collaborative natural resource management more broadly.

Routledge  
September 2020: 234x156: 266pp  
Hb: 978-1-138-49127-4: **£120.00**  
Pb: 978-0-367-66274-5: **£36.99**  
eBook: 978-1-351-03338-1

\* For full contents and more information, visit: [www.routledge.com/9780367662745](http://www.routledge.com/9780367662745)

## An Environmental History of Australian Rainforests until 1939

Fire, Rain, Settlers and Conservation



**Warwick Frost**

Series: *Routledge Explorations in Environmental Studies*

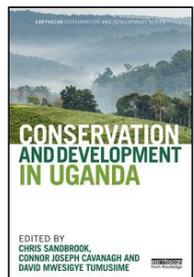
While interest in rainforests and the movement for their conservation are often mistakenly portrayed as features of the last few decades, the debate over human usage of rainforests stretches well back into the nineteenth century. In the modern world, rainforests are generally considered the most attractive of the ecosystems, being seen as lush, vibrant, immense, mysterious, spiritual and romantic.

This book will be of great interest to students and scholars of Environmental History, Australian History and Comparative History.

Routledge  
Market: Environment / Environmental History  
July 2020: 234x156: 234pp  
Hb: 978-0-367-08697-8: **£120.00**  
eBook: 978-1-003-08030-5

\* For full contents and more information, visit: [www.routledge.com/9780367086978](http://www.routledge.com/9780367086978)

## Conservation and Development in Uganda



Edited by **Chris Sandbrook**, **Connor Joseph Cavanagh** and **David Mwesigye Tumusiime**

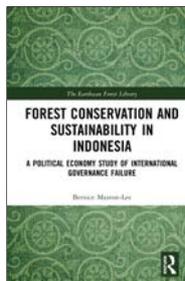
This volume reviews and assesses varied approaches to conservation and development in Uganda, a country whose recent history is characterized by a highly volatile governance and development context and whose extensive protected areas, tropical forests and iconic wildlife (including mountain gorillas) 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.

Routledge  
June 2020: 234x156: 296pp  
Hb: 978-1-138-71092-4: **£120.00**  
Pb: 978-0-367-58626-3: **£36.99**  
eBook: 978-1-315-20053-8

\* For full contents and more information, visit: [www.routledge.com/9780367586263](http://www.routledge.com/9780367586263)

## Forest Conservation and Sustainability in Indonesia

A Political Economy Study of International Governance Failure



**Bernice Maxton-Lee**

Series: *The Earthscan Forest Library*

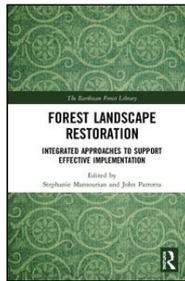
Despite carefully-constructed conservation interventions deforestation in Indonesia is not being stopped. This book identifies why large-scale international forest conservation has failed to reduce deforestation in Indonesia and considers why key stakeholders have not responded as expected to these conservation interventions. The book will be a useful reference for students of environmental science and policy, political theory, international relations, development and economics. It will also be of interest to forestry professions and practitioners working for NGOs.

Routledge  
Market: Forestry / Environment & Sustainability / Geography  
April 2020: 234x156: 226pp  
Hb: 978-0-367-17346-3: **£120.00**  
eBook: 978-0-367-17348-7

\* For full contents and more information, visit: [www.routledge.com/9780367173463](http://www.routledge.com/9780367173463)

## Forest Landscape Restoration

Integrated Approaches to Support Effective Implementation



Edited by **Stephanie Mansourian** and **John Parrotta**

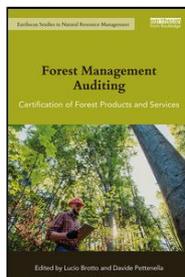
Forest landscape restoration (FLR) is a planned process that aims to regain ecological integrity and enhance human wellbeing in deforested or degraded landscapes. The aim of this book is to better understand the need to take human and institutional factors, as well as the more obvious biophysical, into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

Routledge  
June 2020: 234x156: 266pp  
Hb: 978-1-138-08429-2: **£120.00**  
Pb: 978-0-367-58757-4: **£36.99**  
eBook: 978-1-315-11187-2

\* For full contents and more information, visit: [www.routledge.com/9780367587574](http://www.routledge.com/9780367587574)

## Forest Management Auditing

Certification of Forest Products and Services



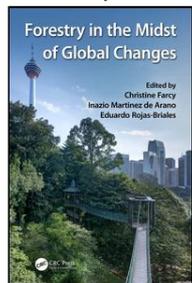
Edited by **Lucio Brotto** and **Davide Pettenella**

Forest management auditing is expanding from its traditional focus on forest management, stewardship and chain of custody certification to more innovative topics such as ecosystem services, forest carbon credits, non-wood forest products, wood energy and fair trade certification. This book outlines the market-based tools that are required by professionals to ensure corporate social responsibility in the forestry sector. It provides a detailed explanation of standards, methodologies and techniques. Numerous case studies are included from a wide range of contexts, from both temperate and tropical forests, developed and developing countries.

Routledge  
June 2020: 234x156: 280pp  
Hb: 978-1-138-81667-1: **£120.00**  
Pb: 978-0-367-60587-2: **£29.99**  
eBook: 978-1-315-74598-5

\* For full contents and more information, visit: [www.routledge.com/9780367605872](http://www.routledge.com/9780367605872)

## Forestry in the Midst of Global Changes



Edited by **Christine Farcy, Eduardo Rojas-Briales and Inazio Martinez de Arano**

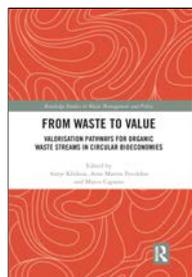
Forestry is an important foundation of the global economy. Today, forestry is a human-dominated ecosystem and as such it faces the many challenges that come with recent changes in urbanization and globalization. This book aims to explain human relations with forest resources from social and political 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  
June 2020: 234x156: 446pp  
Hb: 978-1-138-19708-4: **£150.00**  
Pb: 978-0-367-57073-6: **£41.99**  
eBook: 978-1-315-28237-4

\* For full contents and more information, visit: [www.crcpress.com/9780367570736](http://www.crcpress.com/9780367570736)

## From Waste to Value

Valorisation Pathways for Organic Waste Streams in Circular Bioeconomies



Edited by **Antje Klitkou, Arne Martin Fevolden and Marco Capasso**

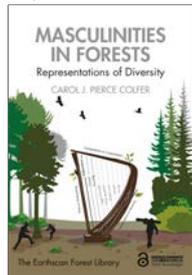
*From Waste to Value* investigates how streams of organic waste and residues can be transformed into valuable products, to foster a transition towards a sustainable and circular bioeconomy. The studies are carried out within a cross-disciplinary framework, drawing on a diverse set of theoretical approaches and defining different valorisation pathways.

Routledge  
December 2020: 234x156: 326pp  
Hb: 978-1-138-62497-9: **£120.00**  
Pb: 978-0-367-73077-2: **£36.99**  
eBook: 978-0-429-46028-9

\* For full contents and more information, visit: [www.routledge.com/9780367730772](http://www.routledge.com/9780367730772)

## Masculinities in Forests

Representations of Diversity



**Carol J. Pierce Colfer**

*Series: The Earthscan Forest Library*

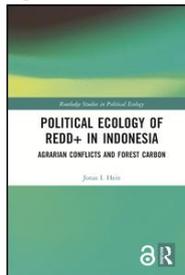
*Masculinities in Forests: Representations of Diversity* demonstrates the wide variability in ideas about, and practice of, masculinity in different forests, and how these relate to forest management. This book will be essential reading for students and scholars of forestry, gender studies and conservation and development, as well as practitioners and NGOs working in these fields.

Routledge  
**Market:** Forestry / Gender / Masculinities  
September 2020: 234x156: 266pp  
Hb: 978-0-367-40389-8: **£120.00**  
Pb: 978-0-367-41700-0: **£34.99**  
eBook: 978-0-367-81577-6

\* For full contents and more information, visit: [www.routledge.com/9780367417000](http://www.routledge.com/9780367417000)

## Political Ecology of REDD+ in Indonesia

Agrarian Conflicts and Forest Carbon



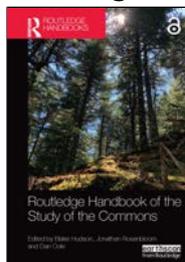
**Jonas Hein**

This book provides a comprehensive analysis of agrarian conflicts in the context of the implementation of REDD+ (Reducing Emissions from Deforestation and forest Degradation) and forest carbon offsetting in Indonesia, a country facing severe problems of deforestation. It will interest researchers in forestry, geography, environmental economics, climate change policies and South-east Asian studies.

Routledge  
June 2020: 234x156: 230pp  
Hb: 978-1-138-47931-9: **£120.00**  
Pb: 978-0-367-58280-7: **£36.99**  
eBook: 978-1-351-06602-0

\* For full contents and more information, visit: [www.routledge.com/9780367582807](http://www.routledge.com/9780367582807)

## Routledge Handbook of the Study of the Commons



Edited by **Blake Hudson, Jonathan Rosenbloom and Dan Cole**

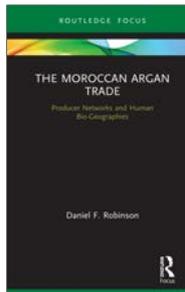
The study of the commons has expanded dramatically since the late 1960s and the subsequent work of Ostrom popularized the dilemma faced by users of common pool resources. This comprehensive Handbook serves as a unique synthesis and resource for understanding how analytical frameworks developed within 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.

Routledge  
September 2020: 464pp  
Hb: 978-1-138-06090-6: **£190.00**  
Pb: 978-0-367-65960-8: **£39.99**  
eBook: 978-1-315-16278-2

\* For full contents and more information, visit: [www.routledge.com/9780367659608](http://www.routledge.com/9780367659608)

## The Moroccan Argan Trade

Producer Networks and Human Bio-Geographies



**Daniel F. Robinson**, University of New South Wales, Australia

*Series: Earthscan Studies in Natural Resource Management*

This book provides one of the most detailed and comprehensive examinations of the Moroccan argan tree, the products derived from it and its cultural significance. Assessing factors relating to legal and economic geography international trade, socio-cultural and human-nature relationships, the book provides a comprehensive analysis of the argan tree which will appeal to students, scholars and practitioners.

Routledge  
**Market:** Natural Resource Management / Environmental Anthropology  
April 2020: 216x138: 132pp  
Hb: 978-0-367-42359-9: **£44.99**  
eBook: 978-0-367-85355-6

\* For full contents and more information, visit: [www.routledge.com/9780367423599](http://www.routledge.com/9780367423599)

## Tropical Bioproductivity

Origins and Distribution in a Globalized World



**David Hammond**

This book investigates the fundamental role that tropical bioproductivity - or more specifically Net Primary Productivity - has played in shaping the global geographies of food, finance, governance and people. *Tropical Bioproductivity* cuts across vast geographies, topics and histories to deliver a readable narrative that links people, places and events with the environmental mechanics of our planet. It will be of interest to students and researchers in the areas of environmental studies, economics, history, agriculture, anthropology and geography.

Routledge

September 2020: 234x156: 324pp

Hb: 978-1-138-59460-9: **£120.00**

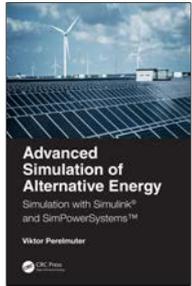
Pb: 978-0-367-66273-8: **£36.99**

eBook: 978-0-429-48873-3

\* For full contents and more information, visit: [www.routledge.com/9780367662738](http://www.routledge.com/9780367662738)

## Advanced Simulation of Alternative Energy

Simulation with Simulink® and SimPowerSystems™



**Viktor M. Perelmuter**, National Technical University, Kharkov, Germany

Advanced Simulation of Alternative Energy is a sequel of the book of the same author printed by CRC Press and considers models of new, promising installations of renewable energy sources, as well as the new trends in this technical field. The book is focused on wind generators with multiphase generators, models of the different offshore parks, wind shear and tower shadow effect, active damping, system inertia support, synchronverter modelling, photovoltaic cells with cascaded H-bridge multilevel inverters, operation of fuel cells with electrolyzers and microturbines, and simulation of the some hybrid systems.

CRC Press

**Market:** Engineering - Mechanical

April 2020: 235 x 156: 314pp

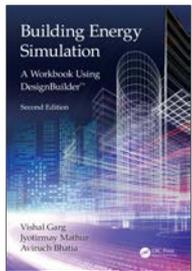
Hb: 978-0-367-33957-9: **£74.99**

eBook: 978-0-429-32405-5

\* For full contents and more information, visit: [www.crcpress.com/9780367339579](http://www.crcpress.com/9780367339579)

2nd Edition

## Building Energy Simulation



**Vishal Garg**, International Institute of Information Technology, Hyderabad, Telangana, India, **Jyotirmay Mathur**, Malaviya National Institute of Technology, Jaipur, Rajasthan, India and **Aviruch Bhatia**, International Institute of Information Technology, Hyderabad, Telangana, India

The 2nd edition of Building Energy Simulation includes study of various components and systems of a building and their effect on energy consumption, with the help of DesignBuilder™, a front-end for EnergyPlus simulation engine, supported by examples and exercises. Following a "learning by doing" methodology, it explains simulation input parameters and how to do analysis of the simulation output explaining building

physics and energy simulation. Divided into three sections, it covers fundamentals of energy simulation followed by advanced topics in energy simulation and simulation for compliance of building codes and detailed case studies for whole building energy simulation.

CRC Press

**Market:** Engineering - Mechanical

September 2020: 254 x 178: 740pp

Hb: 978-0-367-37470-9: **£290.00**

Pb: 978-0-367-37468-6: **£115.00**

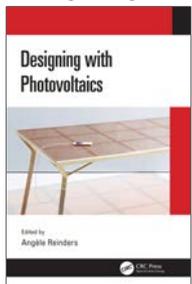
eBook: 978-0-429-35463-2

Prev. Ed Pb: 978-1-498-74451-5

\* For full contents and more information, visit: [www.crcpress.com/9780367374686](http://www.crcpress.com/9780367374686)



## Designing with Photovoltaics



**Angèle Reinders**, ARISE, Faculty of Engineering Technology, University of Twente, Netherlands

This book will cover a broad range of topics related to the design of products, buildings and vehicles with integrated photovoltaic (PV) technologies including storage technologies. It aims to enable the reader to easily design new products, buildings and vehicles through use of innovative PV products.

CRC Press

**Market:** Energy and Clean Technology

May 2020: 235 x 156: 226pp

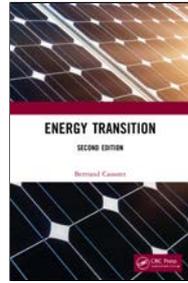
Hb: 978-1-138-29973-3: **£115.00**

eBook: 978-1-315-09792-3

\* For full contents and more information, visit: [www.crcpress.com/9781138299733](http://www.crcpress.com/9781138299733)

2nd Edition

## Energy Transition



**Bertrand Cassoret**, Universite d'Artois, France

This book presents both the importance of energy transition and its associated difficulties and dangers. It discusses the current state of energy consumption and the links between the economy and energy. The book also offers commentary on energy pollution. Reviewing future energy resources, it evaluates several transition scenarios. It will interest engineers working in various fields of energy, producers of fossil, gas, oil, coal, electric, renewable, and nuclear energy. In addition, undergraduate and graduate students studying energy and power should consider the global discussion to develop better processes, from energy sources to production to consumption.

CRC Press

**Market:** Engineering - Energy

February 2021: 234x156: 166pp

Hb: 978-0-367-54278-8: **£140.00**

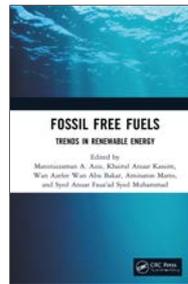
Pb: 978-0-367-54277-1: **£52.99**

eBook: 978-1-003-08848-6

\* For full contents and more information, visit: [www.crcpress.com/9780367542771](http://www.crcpress.com/9780367542771)

## Fossil Free Fuels

Trends in Renewable Energy



Edited by **Maniruzzaman Bin A. Aziz**, **KHAIRUL ANUAR KASSIM**, **WAN AZELEE WAN ABU BAKAR**, **AMINATON MARTO** and **Syed Anuar Faua ad Syed Muhammad**

Fossil Free Fuels - Present Trends of Renewable Energy provide abatement strategies on the ; usage of fossil fuels and emission of Carbon Dioxide to the environment. As climatic change and ; global warming have become alarming global scenario for the past few decades, many approaches ; has been done to overcome and mitigate this recurring environmental problem. This book covers ; critical topics such as exploration of biofuels as next sustainable renewable resources, untapped ; waste to wealth product, green economy, and carbon neutral strategies in various industries such ; as in transportation, construction and

manufacturing sectors.

CRC Press

**Market:** Environmental Engineering

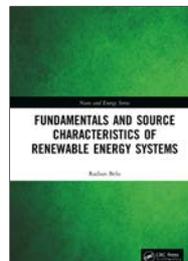
November 2019: 235 x 156: 273pp

Hb: 978-0-367-34762-8: **£99.99**

eBook: 978-0-429-32777-3

\* For full contents and more information, visit: [www.crcpress.com/9780367347628](http://www.crcpress.com/9780367347628)

## Fundamentals and Source Characteristics of Renewable Energy Systems



**Radian Belu**, University of Alaska Anchorage, Alaska, USA

*Series: Nano and Energy*

The book will cover electric energy from alternative energy sources including solar, wind, water, hydropower, geothermal and ocean energy. This textbook is intended for an audience with little or no power engineering or renewable energy background.

CRC Press

**Market:** Energy & Clean Technology

September 2019: 254 x 178: 404pp

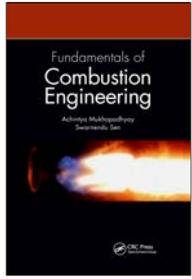
Hb: 978-0-367-26139-9: **£74.99**

eBook: 978-0-429-29728-1

\* For full contents and more information, visit: [www.crcpress.com/9780367261399](http://www.crcpress.com/9780367261399)



## Fundamentals of Combustion Engineering



Achintya Mukhopadhyay and Swarnendu Sen

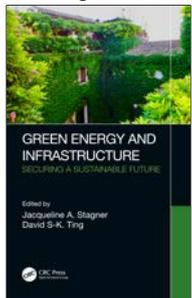
This book is an introductory text on fundamental aspects of combustion meant for use by senior undergraduate and graduate students, covering including thermodynamics, heat and mass transfer and chemical kinetics. The book covers combustion of gaseous, liquid and solid fuels and deals with emission of pollutants and greenhouse gases.

CRC Press  
December 2020: 234x156: 335pp  
Hb: 978-1-482-23330-8: **£115.00**  
Pb: 978-0-367-73154-0: **£42.99**  
eBook: 978-0-429-15821-6

\* For full contents and more information, visit: [www.crcpress.com/9780367731540](http://www.crcpress.com/9780367731540)

## Green Energy and Infrastructure

Securing a Sustainable Future



Edited by Jacqueline A. Stagner and David S-K. Ting

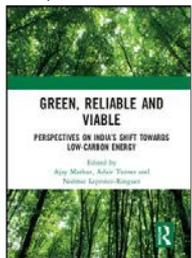
Through numerous practical examples and illustrations, the book examines a comprehensive review of the latest science on indoor environmental health, energy requirements for buildings, and the "greening" of infrastructure. Also, it provides a discussion on the underlying properties of biomass and its influence on furthering energy conversion technologies. Energy storage is essential for driving the integration of renewable energy, and different storage approaches are discussed in terms of power balancing, grid stability, and reliability.

CRC Press  
Market: Civil Engineering  
October 2020: 235 x 156: 366pp  
Hb: 978-0-367-55949-6: **£100.00**  
eBook: 978-1-003-09581-1

\* For full contents and more information, visit: [www.crcpress.com/9780367559496](http://www.crcpress.com/9780367559496)

## Green, Reliable and Viable: Perspectives on India's Shift Towards Low-Carbon Energy

Perspectives on India's Shift Towards Low-Carbon Energy



Edited by Ajay Mathur, Adair Turner and Noémie Leprince-Ringuet

This book brings together the perspectives from key stakeholders in the transitions to low-carbon global energy systems. Experts & practitioners from the mobility, clean energy, agriculture & energy efficiency sectors, have shared their outlook on challenges that lie in the way of energy transitions in India, and offered solutions & next steps to move the country forward on the decarbonisation pathway.

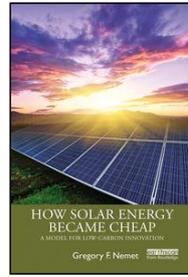
Please note: This book is co-published with TERI Press, India. Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

CRC Press  
June 2019: 108pp  
Hb: 978-0-367-27308-8: **£120.00**  
eBook: 978-0-429-29602-4

\* For full contents and more information, visit: [www.crcpress.com/9780367273088](http://www.crcpress.com/9780367273088)

## How Solar Energy Became Cheap

A Model for Low-Carbon Innovation



Gregory F. Nemet

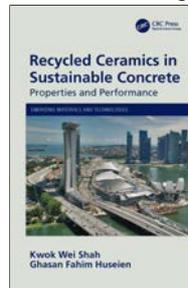
Drawing on case studies from the US, Japan, German and China, this book provides a truly comprehensive and global explanation for how solar has become inexpensive. The payoff from understanding the reasons for solar's success is not just to take full advantage of solar's potential. Rather, it can teach us how to support other low-carbon technologies with analogous properties, including small modular nuclear reactors and direct air capture. This book will be of great interest to students and scholars of energy technology and innovation, climate change and energy analysis and policy, as well as practitioners and policymakers working in the energy industries.

Routledge  
Market: Energy / Technology & Innovation  
May 2019: 234x156: 238pp  
Hb: 978-0-367-13657-4: **£120.00**  
Pb: 978-0-367-13659-8: **£34.99**  
eBook: 978-0-367-13660-4

\* For full contents and more information, visit: [www.routledge.com/9780367136598](http://www.routledge.com/9780367136598)

## Hybrid Power

Generation, Storage, and Grids



Yatish T. Shah, Norfolk State University, Virginia, USA

Series: *Sustainable Energy Strategies*

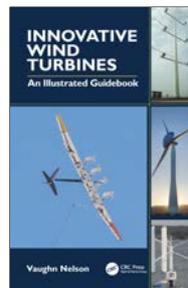
Hybrid energy systems integrate multiple sources of power generation, storage, and transport mechanisms and can facilitate increased usage of cleaner, renewable, and more efficient energy sources. This book discusses hybrid energy systems from fundamentals through applications and discusses generation, storage, and grids. The book will be of interest to advanced students and researchers in academia, government, and industry seeking a comprehensive overview of the basics, technologies, and applications of hybrid energy systems.

CRC Press  
Market: Power and Energy  
February 2021: 234x156: 654pp  
Hb: 978-0-367-67840-1: **£120.00**  
eBook: 978-1-003-13309-4

\* For full contents and more information, visit: [www.crcpress.com/9780367678401](http://www.crcpress.com/9780367678401)

## Innovative Wind Turbines

An Illustrated Guidebook



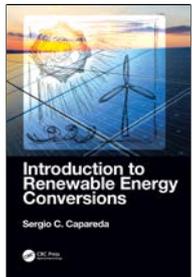
Vaughn Nelson, West Texas A&M University, Canyon, USA

Innovative Wind Turbines is a tribute to the inventors, entrepreneurs, researchers, and companies that through their efforts have envisioned, designed, and constructed models and prototypes for wind energy devices. There are numerous concepts and ideas on ways to convert wind energy into usable energy, and this book examines the innovative, novel, or unusual concepts with numerous photos and historical examples. Primarily, only prototypes that have been constructed are mentioned, along with a few design concepts. The wind turbines are divided by types: horizontal axis wind turbines, ducted wind turbines, vertical axis wind turbines, airborne wind turbines, and more.

CRC Press  
Market: Environmental Engineering  
November 2019: 235 x 156: 156pp  
Hb: 978-0-367-81931-6: **£140.00**  
eBook: 978-1-003-01088-3

\* For full contents and more information, visit: [www.crcpress.com/9780367819316](http://www.crcpress.com/9780367819316)

## Introduction to Renewable Energy Conversions



Sergio C. Capareda, Texas A&M University, College Station, USA

Introduction to Renewable Energy Conversions examines all the major renewable energy conversion technologies, with the goal of enabling readers to formulate realistic resource assessments. The text provides step-by-step procedures for assessing renewable energy options, and then moves to the design of appropriate renewable energy strategies. The goal is for future engineers to learn the process of making resource estimates, through the introduction of more than 140 solved problems (and equal number of solved problems for teachers), over 165 engineering related equations, more than 120 figures and numerous tables to explain each renewable energy conversion

type.

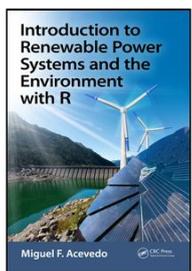
CRC Press

Market: Engineering- Mechanical  
August 2019: 254 x 178: 456pp  
Hb: 978-0-367-18850-4: £96.00  
eBook: 978-0-429-19910-3

\* For full contents and more information, visit: [www.crcpress.com/9780367188504](http://www.crcpress.com/9780367188504)



## Introduction to Renewable Power Systems and the Environment with R



Miguel F. Acevedo

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

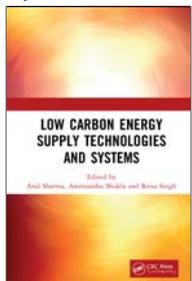
techniques described in the book.

CRC Press

June 2020: 254x178: 457pp  
Hb: 978-1-138-19734-3: £115.00  
Pb: 978-0-367-57130-6: £41.99  
eBook: 978-1-315-27961-9

\* For full contents and more information, visit: [www.crcpress.com/9780367571306](http://www.crcpress.com/9780367571306)

## Low Carbon Energy Supply Technologies and Systems



Edited by Atul Sharma, Rajiv Gandhi Institute of Petroleum Technology, Amethi, INDIA, Amritanshu Shukla, Rajiv Gandhi Institute of Petroleum Technology, Amethi, INDIA and Renu Singh, Centre for Environment Science and Climate Resilient Agriculture, Indian Agricultural Research Institute, New Delhi, INDIA

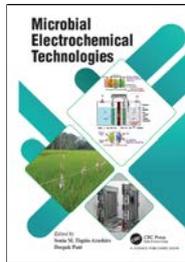
This book provides a deeper knowledge on individual low (and zero) carbon technologies in a comprehensive way covering details of recent developments on these technologies in different countries. It also covers materials and processes involved in the energy generation, transmission, distribution and so forth.

CRC Press

Market: Mechanical Engineering  
June 2020: 235 x 156: 344pp  
Hb: 978-0-367-37340-5: £115.00  
eBook: 978-0-429-35319-2

\* For full contents and more information, visit: [www.crcpress.com/9780367373405](http://www.crcpress.com/9780367373405)

## Microbial Electrochemical Technologies



Edited by Sonia M. Tiquia-Arashiro, University of Michigan-Dearborn, Michigan, USA and Deepak Pant, Flemish Institute for Technological Research, Mol, Antwerp, Belgium

Microbial Electrochemical Technologies encompasses recent research and practical updates including energy recovery, hydrogen production, chemical production and desalination. It provides currently used and futuristic applications of METs for bioelectrogenesis, multiple product synthesis, waste remediation strategies, and microbially mediated energy generation which are widely used in all aspects ranging from individuals to industry. It encompasses content provided by pioneers in the

field and experienced researchers and provides details about the scaling up of METs and converting it into a useful technology.

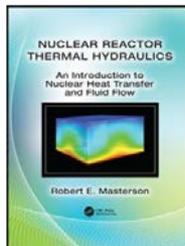
CRC Press

Market: Life Science  
December 2019: 254 x 178: 518pp  
Hb: 978-1-138-59711-2: £170.00  
eBook: 978-0-429-48711-8

\* For full contents and more information, visit: [www.crcpress.com/9781138597112](http://www.crcpress.com/9781138597112)

## Nuclear Reactor Thermal Hydraulics

An Introduction to Nuclear Heat Transfer and Fluid Flow



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 considerations. 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

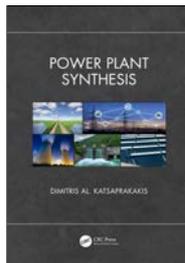
text is suitable for both undergraduate and graduate students. A complete Solutions Manual is available for professors.

CRC Press

Market: Engineering - Mechanical  
September 2019: 254 x 203: 1354pp  
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](http://www.crcpress.com/9781138035379)

## Power Plant Synthesis



Dimitris Al. Katsaprakakis

Series: *Mechanical and Aerospace Engineering Series*

Power Plant Synthesis provides an integrated approach to the operation, analysis, simulation and dimensioning of power plants for electricity and thermal energy production. Fundamental concepts of energy and power, energy conversion, and power plant design are first presented, then integrated approaches for the operation and simulation of conventional electricity production systems are examined. Hybrid power plants and cogeneration systems are covered, with operating algorithms, optimization and dimensioning methods explained. The environmental impacts of energy sources are described and

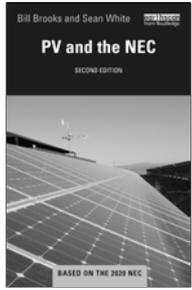
compared, and real-life case studies included to show the synthesis of the specific topics covered.

CRC Press

Market: Engineering - Mechanical  
June 2020: 254 x 178: 592pp  
Hb: 978-1-138-05384-7: £130.00  
eBook: 978-1-315-16717-6

\* For full contents and more information, visit: [www.crcpress.com/9781138053847](http://www.crcpress.com/9781138053847)

2nd Edition

**PV and the NEC**

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

*PV and the NEC* presents a straightforward explanation of the NEC in everyday language. This new edition is based on the 2020 NEC, which will be used widely until 2026, with most of the interpretations and material staying true long after. This book interprets the distinct differences between previous versions of the NEC and the 2020 NEC and clarifies how these code changes relate specifically to PV 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.

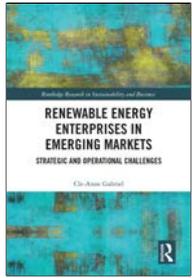
Routledge

**Market:** Environment/Energy  
August 2020: 216x138: 256pp  
Hb: 978-0-367-89318-7: **£120.00**  
Pb: 978-0-367-89351-4: **£26.99**  
eBook: 978-1-003-01877-3  
Prev. Ed Pb: 978-1-138-08753-8

\* For full contents and more information, visit: [www.routledge.com/9780367893514](http://www.routledge.com/9780367893514)

**Renewable Energy Enterprises in Emerging Markets**

Strategic and Operational Challenges



**Cle-Anne Gabriel**

*Series: Routledge Research in Sustainability and Business*

This book highlights the challenges faced by renewable energy enterprises (REEs) in emerging markets, by reflecting on the enterprises' own stories and experiences. The research draws on interviews with entrepreneurs in twenty-eight emerging markets, including Barbados, Cambodia, Chile, Ghana, Indonesia, India, Kenya, South Africa and Uganda. The book concludes by summarising the key solutions for success and illustrating how successful REEs put them into practice. This book will be of great interest to students and scholars of renewable energy, sustainable business and the sustainability agenda in emerging markets.

Routledge

**Market:** Renewable Energy / Sustainable Business  
December 2019: 234x156: 190pp  
Hb: 978-1-138-34829-5: **£120.00**  
eBook: 978-0-429-43674-1

\* For full contents and more information, visit: [www.routledge.com/9781138348295](http://www.routledge.com/9781138348295)

**Renewable Energy Systems**

Fundamentals and Source Characteristics

**Radian Belu**, University of Alaska Anchorage, Alaska, USA

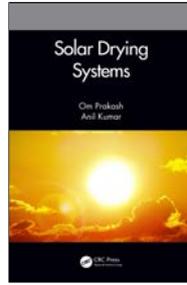
*Series: Nano and Energy*

The Renewable Energy Systems: Fundamentals and Source Characteristics is a set book coming in two volumes. The first volume is "Fundamentals and Source Characteristics of Renewable Energy Systems and the second volume is called "Energy Storage, Grid Integration, Energy Economics and the Environment".

CRC Press

**Market:** Energy & Clean Technology  
October 2019: 254 x 178: 810pp  
Hb: 978-1-482-25744-1: **£111.00**

\* For full contents and more information, visit: [www.crcpress.com/9781482257441](http://www.crcpress.com/9781482257441)

**Solar Drying Systems**

**Om Prakash**, Department of Mechanical Engineering, Birla Institute of Technology Mesra, Ranchi, INDIA and **Anil Kumar**, Department of Mechanical Engineering, Delhi Technological University, Delhi, India

Solar energy has found its widespread use in direct conversion into electricity either by photovoltaic conversion or through thermal energy, reduction in post-harvest losses and crop drying, and so forth. *Solar Drying Systems* deals with fundamentals, principles and applications of solar drying covering concept of solar energy, heat transfer, elements of drying and solar dryer designs, and related modeling and analysis aspects. It reviews highlights of present as well as future solar drying options and includes figures, solved examples and tables with end of the

chapter problems/exercises aimed at academicians and professionals likewise.

CRC Press

**Market:** Energy Engineering  
December 2020: 234x156: 154pp  
Hb: 978-0-367-28043-7: **£130.00**  
eBook: 978-0-429-29935-3

\* For full contents and more information, visit: [www.crcpress.com/9780367280437](http://www.crcpress.com/9780367280437)

2nd Edition

**Solar PV Engineering and Installation**

Preparation for the NABCEP PV Installation Professional, Specialist and Inspector Certification Exams



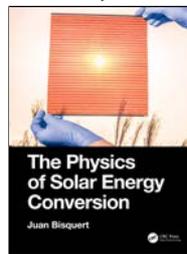
**Sean White**, Solar Energy Professor and Consultant, USA

The NABCEP PV Installation Professional Exam is the gold standard certification exam for PV professionals and is famously difficult to pass. This book will provide test-taking strategy that can be used to most effectively study for and pass the exam. Code and theory is explained in the first half and will prove as useful background for the heart of the book which consists of practice exam questions and detailed explanations of the answers.

Routledge

**Market:** Energy / Solar Energy  
July 2019: 186x123: 314pp  
Hb: 978-1-138-34857-8: **£110.00**  
Pb: 978-1-138-34859-2: **£26.99**  
eBook: 978-0-429-43555-3  
Prev. Ed Pb: 978-0-415-71333-7

\* For full contents and more information, visit: [www.routledge.com/9781138348592](http://www.routledge.com/9781138348592)

**The Physics of Solar Energy Conversion**

**Juan Bisquert**, Universitat Jaume I, Castello, Spain

Research on advanced energy conversion devices such as solar cells has intensified in the last two decades. A broad landscape of candidate materials and devices were discovered and systematically studied for effective solar energy conversion and utilization. New concepts have emerged forming a rather powerful picture embracing the mechanisms and limitation to efficiencies of different types of devices. *The Physics of Solar Energy Conversion* introduces the main physico-chemical principles that govern the operation of energy devices for energy conversion and storage, with a detailed view of the principles of solar energy conversion using advanced materials.

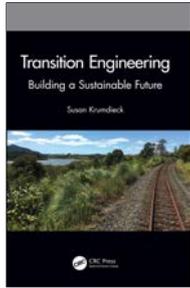
CRC Press

**Market:** Physics  
June 2020: 279 x 216: 490pp  
Hb: 978-1-138-58464-8: **£230.00**  
eBook: 978-0-429-50587-4

\* For full contents and more information, visit: [www.crcpress.com/9781138584648](http://www.crcpress.com/9781138584648)

## Transition Engineering

Building a Sustainable Future



**Susan Krumdieck**, University of Canterbury, New Zealand

Transition Engineering: Building a Sustainable Future examines new strategies emerging in response to the mega-issues of global climate change, decline in world oil supply, scarcity of key industrial minerals, and local environmental constraints. These issues pose challenges for organizations, businesses, and communities. Engineers will need to begin developing ideas and projects to implement the transition of engineered systems. This work presents a methodology for shifting away from unsustainable activities. Teaching the Transition Engineering approach and methodology is the focus of the text, and the concept is presented in a way that engineers can begin applying it in their work.

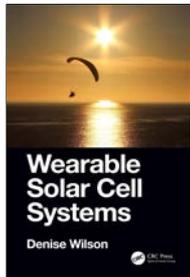
CRC Press

**Market:** Engineering-Mechanical  
September 2019: 235 x 156: 254pp  
Hb: 978-0-367-36243-0: **£89.99**  
Pb: 978-0-367-34126-8: **£44.99**  
eBook: 978-0-429-34391-9

\* For full contents and more information, visit: [www.crcpress.com/9780367341268](http://www.crcpress.com/9780367341268)



## Wearable Solar Cell Systems



**Denise Wilson**, University of Washington, USA

Wearable Solar Cell Systems looks at possibilities for supporting the energy demand of electronic devices without the need to return to the dreaded wall outlet for recharging. While crystalline silicon dominates world markets, second or third generation solar cell technologies may be more suitable to wearable systems. Array size, architecture, and management must also be chosen to best serve portable and wearable devices and harvest light energy from different light sources. This book is useful for students who desire a basic introduction to solar cell technology and also for professionals seeking a holistic picture of wearable solar cells and systems.

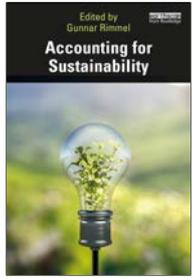
CRC Press

**Market:** Engineering - Electrical  
December 2019: 235 x 156: 164pp  
Hb: 978-0-367-02347-8: **£66.99**  
eBook: 978-0-429-39959-6

\* For full contents and more information, visit: [www.crcpress.com/9780367023478](http://www.crcpress.com/9780367023478)



## Accounting for Sustainability



Edited by **Gunnar Rimmel**

This book provides an accessible introduction to sustainability reporting, showing how it has grown, how it is used now and where it is heading. It begins with an overview of how sustainability reporting has emerged, before moving on to cover definitions of key terms and specific theories and frameworks. Subsequent chapters explore the role of financial management, sustainability standards, accounting communication and capital markets. With learning outcomes and study questions in each chapter, this book will be of great interest to students of sustainability reporting and accounting, as well as practitioners taking related professional accreditations.

Routledge

**Market:** Sustainability Accounting/ Corporate Social Responsibility

September 2020: 234x156: 230pp

Hb: 978-0-367-47892-6: **£120.00**

Pb: 978-0-367-47895-7: **£34.99**

eBook: 978-1-003-03720-0

\* For full contents and more information, visit: [www.routledge.com/9780367478957](http://www.routledge.com/9780367478957)



## Buen Vivir as an Alternative to Sustainable Development

Lessons from Ecuador



**Natasha Chassagne**

*Series: Routledge Studies in Sustainable Development*

This book explores how communities understand and practice Buen Vivir, an alternative to the current model of sustainable development. Until recently, the concept of Buen Vivir has only been loosely articulated by practising communities and in progressive policy. This book, based on extensive theoretical and field research, offers a concrete way forward. Exploring Buen Vivir's evolution from its indigenous origins, academic interpretations and implications for development policy; to its role in endogenous, community-led change, this book will be of interest to policymakers, activists, students and scholars of sustainability and development.

Routledge

**Market:** Development / Sustainable Development

November 2020: 234x156: 192pp

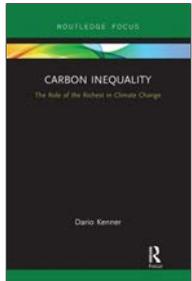
Hb: 978-0-367-90143-1: **£120.00**

eBook: 978-1-003-02307-4

\* For full contents and more information, visit: [www.routledge.com/9780367901431](http://www.routledge.com/9780367901431)

## Carbon Inequality

The Role of the Richest in Climate Change



**Dario Kenner**

*Carbon Inequality* studies the role that the richest people's personal consumption plays in contributing to climate change and biodiversity loss, and it explores strategies for reducing the personal carbon footprint of High Net Worth Individuals (HNWIs) in the main countries they live in: United States, Japan, Germany, China, United Kingdom and France. This book will be of great relevance to scholars and policy makers with an interest in environmental policy, climate change and sustainable consumption.

Routledge

March 2021: 216x138: 146pp

Hb: 978-0-815-39922-3: **£44.99**

Pb: 978-0-367-72766-6: **£16.99**

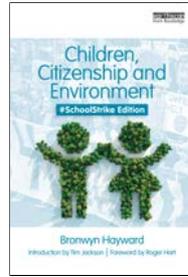
eBook: 978-1-351-17132-8

\* For full contents and more information, visit: [www.routledge.com/9780367727666](http://www.routledge.com/9780367727666)

2nd Edition

## Children, Citizenship and Environment

#SchoolStrike Edition



**Bronwyn Hayward**

When it was first published in 2012, *Children, Citizenship and Environment* correctly predicted a strong surge in youth activism. Nearly a decade on, while the experience of a world pandemic may have interrupted the rise of youthful street activism, it has also served to underscore the problems of deepening inequality and the risks of increasingly authoritarian government responses which young citizens must also confront. This groundbreaking book will be of interest to teachers and professionals who work in Environmental Citizenship Education, as well as students and community activists with an interest in environmental change, democracy and intergenerational justice.

Routledge

**Market:** Environment and Sustainability / Education

October 2020: 234x156: 284pp

Hb: 978-0-367-42962-1: **£120.00**

Pb: 978-0-367-42963-8: **£29.99**

eBook: 978-1-003-00039-6

Prev. Ed Pb: 978-1-849-71437-2

\* For full contents and more information, visit: [www.routledge.com/9780367429638](http://www.routledge.com/9780367429638)

2nd Edition

## Essential Concepts of Global Environmental Governance



Edited by **Jean-Frederic Morin**, Université Libre de Bruxelles, Belgium, and **Amandine Orsini**, the Université Libre de Bruxelles, Belgium.

*Essential Concepts of Global Environmental Governance* synthesizes writing from an internationally diverse range of well-known experts. Each entry defines a central concept in global environmental governance, presenting its historical evolution and related debates, and includes key bibliographical references and further reading. This new edition takes stock of several recent developments in global environmental politics including the adoption of the 2015 Paris Agreement on Climate Change and the launch of the UN Global Pact for the Environment in 2017.

Routledge

**Market:** Environment, Sustainability

September 2020: 216x138: 332pp

Hb: 978-0-367-41870-0: **£120.00**

Pb: 978-0-367-41869-4: **£32.99**

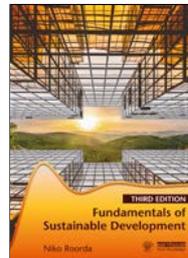
eBook: 978-0-367-81668-1

Prev. Ed Pb: 978-0-415-82247-3

\* For full contents and more information, visit: [www.routledge.com/9780367418694](http://www.routledge.com/9780367418694)

3rd Edition

## Fundamentals of Sustainable Development



**Niko Roorda**

This accessible textbook introduces the concept of sustainable development to students from across the disciplines from economics, management, teacher education, arts and humanities to the natural and social sciences. Providing a multifaceted approach to the subject, this third edition provides an update of the text, emphasising topics including the Sustainable Development Goals, the circular economy, climate & energy, and sustainable and future-focused entrepreneurship. This book is an invaluable resource for students and lecturers who have an interest in the sustainability of our planet, and our human society and economy.

Routledge

**Market:** Environment / Sustainability

September 2020: 246x174: 438pp

Hb: 978-0-367-51122-7: **£120.00**

Pb: 978-0-367-51119-7: **£40.99**

eBook: 978-1-003-05251-7

Prev. Ed Pb: 978-1-138-09265-5

\* For full contents and more information, visit: [www.routledge.com/9780367511197](http://www.routledge.com/9780367511197)

## Governing Technology in the Quest for Sustainability on Earth



Dain Bolwell

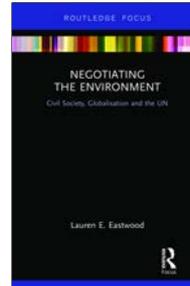
*Governing Technology in the Quest for Sustainability on Earth* explores how technological advances can be managed to ensure the long-term sustainability of our species and of other life forms with which we share this world. It analyses human impact, the discourses of environmentalism and issues of economics, history and science.

Routledge  
September 2020: 234x156: 306pp  
Hb: 978-1-138-36773-9: **£120.00**  
Pb: 978-0-367-66176-2: **£36.99**  
eBook: 978-0-429-42965-1

\* For full contents and more information, visit: [www.routledge.com/9780367661762](http://www.routledge.com/9780367661762)

## Negotiating the Environment

Civil Society, Globalisation and the UN



Lauren E Eastwood

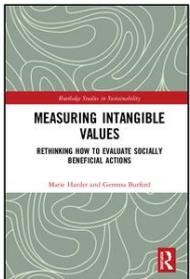
Civil society participants have voiced concerns that the environmental problems that became apparent at the multilateral environmental agreements of the 1992 Rio processes are not serving to ameliorate global environmental problems. These concerns raise significant questions regarding the utility of 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  
June 2020: 216x138: 144pp  
Hb: 978-0-415-66056-3: **£46.99**  
Pb: 978-0-367-60660-2: **£17.99**  
eBook: 978-0-203-07397-1

\* For full contents and more information, visit: [www.routledge.com/9780367606602](http://www.routledge.com/9780367606602)

## Measuring Intangible Values

Rethinking How to Evaluate Socially Beneficial Actions



Marie Harder and Gemma Burford

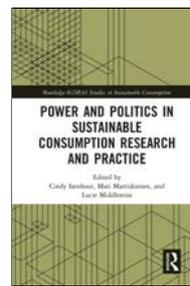
Series: *Routledge Studies in Sustainability*

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 – central to 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  
March 2020: 234x156: 192pp  
Hb: 978-1-138-07958-8: **£120.00**  
Pb: 978-0-367-50057-3: **£36.99**  
eBook: 978-1-315-11431-6

\* For full contents and more information, visit: [www.routledge.com/9780367500573](http://www.routledge.com/9780367500573)

## Power and Politics in Sustainable Consumption Research and Practice



Edited by Cindy Isenhour, Mari Martiskainen and Lucie Middlemiss

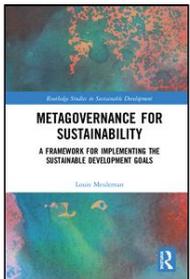
This volume, featuring essays solicited from experts engaged in sustainable consumption research from around the world, presents empirical and theoretical illustrations of the various means through which politics and power influence (un)sustainable consumption practices, policies and perspectives. With chapters on compelling topics including collective action, behaviour-change and the transition movement, the authors discuss why current efforts have largely failed to meet environmental targets and explore promising directions for research, policy and practice.

Routledge  
December 2020: 234x156: 220pp  
Hb: 978-1-138-05620-6: **£120.00**  
Pb: 978-0-367-67173-0: **£36.99**  
eBook: 978-1-315-16550-9

\* For full contents and more information, visit: [www.routledge.com/9780367671730](http://www.routledge.com/9780367671730)

## Metagovernance for Sustainability

A Framework for Implementing the Sustainable Development Goals



Louis Meuleman

Series: *Routledge Studies in Sustainable Development*

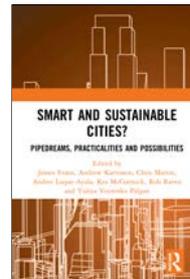
The 17 Sustainable Development Goals (SDGs) connect the big challenges of our time, such as hunger and poverty, climate change, health in an urbanised environment, and sustainable energy, mobility and economic development. This book tests the hypothesis that the implementation of sustainable development 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  
Market: Environment / Sustainability  
March 2020: 234x156: 320pp  
Hb: 978-0-815-37016-1: **£120.00**  
Pb: 978-0-367-50046-7: **£36.99**  
eBook: 978-1-351-25060-3

\* For full contents and more information, visit: [www.routledge.com/9780367500467](http://www.routledge.com/9780367500467)

## Smart and Sustainable Cities?

Pipedreams, Practicalities and Possibilities



Edited by James Evans, University of Manchester, UK, Andrew Karvonen, Chris Martin, Andres Luque-Ayala, University of Durham, UK, Kes McCormick, Rob Raven and Yuliya Voytenko Palgan

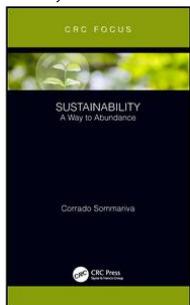
*Smart and Sustainable Cities? Pipedreams, Practicalities and Possibilities* provides one of the first examinations of how smart cities relate to environmental and social issues. It addresses the gap between the ambitious visions of smart cities and the actual practices on the ground by focusing on the social and environmental dimensions of real smart city initiatives as well as the possibilities that they hold for creating more equitable and progressive cities.

The chapters in this book were originally published as a special issue of the journal *Local Environment*.

Routledge  
Market: Environment and Sustainability  
December 2020: 246x174: 116pp  
Hb: 978-0-367-63680-7: **£120.00**  
\* For full contents and more information, visit: [www.routledge.com/9780367636807](http://www.routledge.com/9780367636807)

## Sustainability

A Way to Abundance



Corrado Sommariva

The book describes mechanisms by which the planet is driven towards a state of abundance explaining sustainability and abundance principles. It explains related technology intervention and environmental theories and inter-relationships between them. Essential economics of sustainability demonstrating economic feasibility are also dealt with.

CRC Press

August 2020: 216 x 140: 210pp

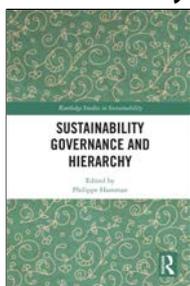
Hb: 978-0-815-36168-8: £52.99

Pb: 978-0-367-60721-0: £17.99

eBook: 978-1-351-11582-7

\* For full contents and more information, visit: [www.crcpress.com/9780367607210](http://www.crcpress.com/9780367607210)

## Sustainability Governance and Hierarchy



Edited by Philippe Hamman

*Sustainability Governance and Hierarchy* provides a solid, theoretically and empirically grounded reflection on the concept of "sustainability governance", whose growing popularity in social science literature, as well as among decision-makers and governance actors, may seem intriguing, all the more so as it articulates together two vast fields of study that have sometimes been dismissed as vague or ideologically loaded. In order to think together the concepts of "sustainability" and "governance", the book is organized around the exploration of hierarchy issues, which often lie in the background of the existing literature but are not the focus of analysis.

Routledge

March 2021: 234x156: 276pp

Hb: 978-0-367-18789-7: £120.00

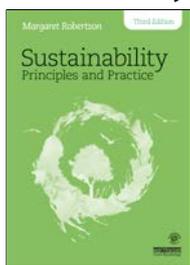
Pb: 978-0-367-72741-3: £36.99

eBook: 978-0-367-18790-3

\* For full contents and more information, visit: [www.routledge.com/9780367727413](http://www.routledge.com/9780367727413)

3rd Edition

## Sustainability Principles and Practice



Margaret Robertson, Lane Community College, USA

This textbook gives an overview of the interdisciplinary field of sustainability. Each chapter explores one aspect of the field, first introducing concepts and presenting issues, then supplying tools for working toward solutions. The 3<sup>rd</sup> edition includes greater coverage of resilience and systems thinking, an update on the Anthropocene as a formal geological epoch, the latest research from the IPCC, and a greater focus on diversity and social equity, together with new details such as sustainable consumption, textiles recycling, microplastics, and net-zero concepts. This edition has been expanded to include issues, solutions, and new case studies.

Routledge

Market: Environment / Sustainability

January 2021: 246x174: 528pp

Hb: 978-0-367-36519-6: £120.00

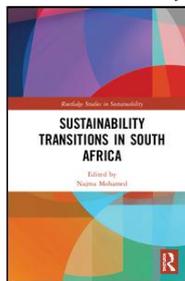
Pb: 978-0-367-36521-9: £37.99

eBook: 978-0-429-34666-8

Prev. Ed Pb: 978-1-138-65024-4

\* For full contents and more information, visit: [www.routledge.com/9780367365219](http://www.routledge.com/9780367365219)

## 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

March 2020: 234x156: 222pp

Hb: 978-1-138-72799-1: £120.00

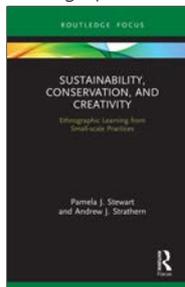
Pb: 978-0-367-50038-2: £36.99

eBook: 978-1-315-19061-7

\* For full contents and more information, visit: [www.routledge.com/9780367500382](http://www.routledge.com/9780367500382)

## Sustainability, Conservation, and Creativity

Ethnographic Learning from Small-scale Practices



Pamela J. Stewart and Andrew J. Strathern

Series: *Routledge Focus on Environment and Sustainability*

By examining how small communities have dealt with forces of change and have sought to maintain themselves over time, this book offers pointers and lessons for conservation practices at all levels of society. The authors focus on topical case histories on agricultural activity, stock-keeping, cash cropping, mining, and renewable energy, and highlight how ethnographic studies can and should inform policy decisions at both a local and global levels. This book will be of great interest to students and scholars of applied anthropology, sociology, and development studies.

Routledge

Market: Sustainability / Sustainable Development

October 2019: 216x138: 64pp

Hb: 978-1-138-31543-3: £44.99

eBook: 978-0-429-45631-2

\* For full contents and more information, visit: [www.routledge.com/9781138315433](http://www.routledge.com/9781138315433)

## Sustainable Action

Overcoming the Barriers



Christian Berg

Series: *Routledge Studies in Sustainability*

*Sustainable Action* surveys all the fields involved in sustainability to provide action principles which speak to actors of different kinds, not just those professionally mandated with such changes. It offers a road map to all those who might not constantly think about systems change but who are concerned and want to contribute to a sustainable future in a meaningful way.

This book will be of great interest to students and scholars of sustainability issues, as well as those looking for a framework for how to change their systems at work to impact the quadruple bottom line: environment, economy, society, and future

generations.

Routledge

Market: Environment/Sustainability

November 2019: 234x156: 318pp

Hb: 978-0-367-18320-2: £120.00

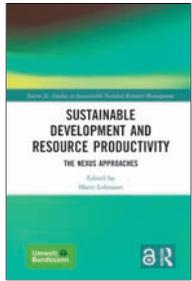
Pb: 978-0-367-18321-9: £34.99

eBook: 978-0-429-06078-6

\* For full contents and more information, visit: [www.routledge.com/9780367183219](http://www.routledge.com/9780367183219)

## Sustainable Development and Resource Productivity

The Nexus Approaches



Edited by **Harry Lehmann**

Series: *Factor X: Studies in Sustainable Natural Resource Management*

The fourth Factor X publication from the German Environment Agency (Umweltbundesamt, UBA), *Sustainable Development and Resource Productivity: The Nexus Approaches* explores the interdependencies of sustainable development paths and associated resource requirements, describing and analysing the necessities for a more resource efficient world.

Discussing solutions for a more sustainable use of natural resources, this book is essential reading for scholars and students of natural resources and sustainable development and

decision-makers and experts from the fields of policy development, industry and civil society.

Routledge

Market: Natural Resources / Sustainable Development

November 2020: 234x156: 386pp

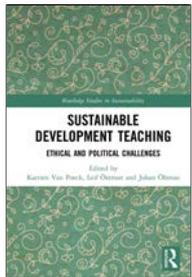
Hb: 978-0-367-42954-6: **£120.00**

eBook: 978-1-003-00036-5

\* For full contents and more information, visit: [www.routledge.com/9780367429546](http://www.routledge.com/9780367429546)

## Sustainable Development Teaching

Ethical and Political Challenges



Edited by **Katrien Van Poeck, Leif Östman and Johan Öhman**

The aim of this book is to support and inspire teachers to contribute to much-needed processes of sustainable development and to develop teaching practices and professional identities that allow them to cope with the specificity of sustainability issues and, in particular, with the teaching challenges related to the ethical and political dimension of environmental and sustainability education. This book will be essential reading for students of education, as well as teachers in compulsory and higher education and sustainability education researchers.

Routledge

December 2020: 234x156: 264pp

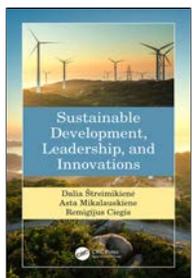
Hb: 978-0-815-35753-7: **£120.00**

Pb: 978-0-367-72958-5: **£36.99**

eBook: 978-1-351-12434-8

\* For full contents and more information, visit: [www.routledge.com/9780367729585](http://www.routledge.com/9780367729585)

## Sustainable Development, Leadership, and Innovations



Edited by **Dalia Streimikiene, Asta Mikalauskiene and Remigijus Ciegis**

The book deals with the main challenges of sustainable development and the role of sustainable business and corporate social responsibility in addressing these challenges through sustainable leadership. It includes the economic, social, and environmental dimensions of sustainability and emphasizes the importance of achieving a socio-environmental balance in society. The theoretical frameworks and insights from sustainable development implementations on macro and micro levels, as well as the practical examples and case studies provided, introduce the concept of sustainable leadership and its impact on sustainable business development as a scientific novelty in

the field of sustainability.

CRC Press

Market: Sustainable Development

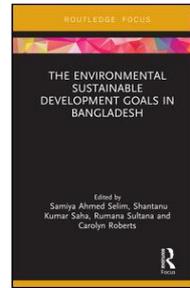
December 2019: 235 x 156: 280pp

Hb: 978-0-367-36943-9: **£99.99**

eBook: 978-1-003-00339-7

\* For full contents and more information, visit: [www.crcpress.com/9780367369439](http://www.crcpress.com/9780367369439)

## The Environmental Sustainable Development Goals in Bangladesh



Edited by **Samiya A. Selim, Shantanu Kumar Saha, Rumana Sultana and Carolyn Roberts**

Series: *Routledge Focus on Environment and Sustainability*

This book examines the key Sustainable Development Goals (SDGs) relating to environmental sustainability and provides a cutting-edge assessment of current progress with the view of achieving these goals by 2030. The book pays particular attention to Bangladesh, as a country representative of emerging economies which are struggling to meet their goals. This book will be of great interest to students and scholars of sustainable development and climate change, as well as practitioners and policymakers involved in sustainable development and disaster management.

Routledge

Market: Sustainable Development

March 2020: 216x138: 190pp

Hb: 978-1-138-61513-7: **£46.99**

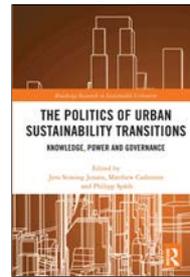
Pb: 978-0-367-50768-8: **£16.99**

eBook: 978-0-429-46336-5

\* For full contents and more information, visit: [www.routledge.com/9780367507688](http://www.routledge.com/9780367507688)

## The Politics of Urban Sustainability Transitions

Knowledge, Power and Governance



Edited by **Jens Stissing Jensen, Matthew Cashmore and Philipp Späth**

This book contributes to emerging debates on the politics of urban transitions by examining the intimate interlinkages between knowledge, power and governance. Drawing upon real-world examples of urban governance, the authors explore the strategies, struggles and controversies involved in configuring knowledge and how knowledge constructions influence governance by rendering some concerns and issues visible and valuable, while obscuring others. This book will be of great value to academics, policy-makers, and practitioners working in the social sciences, urban studies, geography, urban governance or sustainability transitions.

Routledge

September 2020: 234x156: 196pp

Hb: 978-1-138-47965-4: **£120.00**

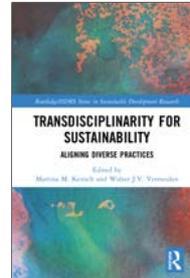
Pb: 978-0-367-66487-9: **£36.99**

eBook: 978-1-351-06534-4

\* For full contents and more information, visit: [www.routledge.com/9780367664879](http://www.routledge.com/9780367664879)

## Transdisciplinarity For Sustainability

Aligning Diverse Practices



Edited by **Martina M. Keitsch and Walter J.V. Vermeulen**  
Series: *Routledge/ISDRS Series in Sustainable Development Research*

*Transdisciplinarity For Sustainability: Aligning Diverse Practices* is written by specialists from various academic disciplines and represents an important step forward in systematising knowledge and understanding of transdisciplinary collaboration. They are designed to provide a roadmap for further research in the field and facilitate pursuing and realizing the SDGs.

Routledge

Market: Environment / Sustainable Development

November 2020: 234x156: 230pp

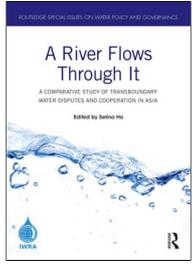
Hb: 978-0-367-18907-5: **£115.00**

eBook: 978-0-429-19912-7

\* For full contents and more information, visit: [www.routledge.com/9780367189075](http://www.routledge.com/9780367189075)

## A River Flows Through It

A Comparative Study of Transboundary Water Disputes and Cooperation in Asia



Edited by **Selina Ho**, National University of Singapore, Singapore

Series: *Routledge Special Issues on Water Policy and Governance*

*A River Flows Through It: A Comparative Study of Transboundary Water Disputes and Cooperation in Asia* explores water disputes in Asia and addresses the question of how states sharing a river system can be incentivized to cooperate.

This book will be of great value to scholars, students, and policymakers interested in transboundary water disputes and cooperation, hydro-diplomacy, and river activism. It was originally published as special issues of *Water International*

Routledge

Market: Environment and Sustainability

November 2020: 246x174: 250pp

Hb: 978-0-367-63676-0: £120.00

\* For full contents and more information, visit: [www.routledge.com/9780367636760](http://www.routledge.com/9780367636760)

## Advances in Waste-to-Energy Technologies

Edited by **Rajeev Pratap Singh**, Institute of Environmental and Sustainable Development, Banaras Hindu University, **Vishal Prasad**, Institute of Environment and Sustainable Development Banaras Hindu University and **Barkha Vaish**, Institute of Environmental and Sustainable Development, India

As global populations continue to increase, the application of biotechnological processes for disposal and control of waste has gained importance in recent years. This book presents the latest developments in the areas of solid waste management, Waste-to-Energy (WTE) technologies, biotechnological approaches, and their global challenges. It discusses the economic and regulatory contexts for managing waste, and includes practical case studies from around the world. It serves as a useful resource for professionals and students involved in cross-disciplinary and trans-disciplinary research programs and related courses.

CRC Press

Market: Environmental Engineering

December 2019: 235 x 156: 288pp

Hb: 978-1-138-39042-3: £99.99

eBook: 978-0-429-42337-6

\* For full contents and more information, visit: [www.crcpress.com/9781138390423](http://www.crcpress.com/9781138390423)

## Bioremediation Technology

Hazardous Waste Management

Edited by **M H Fulekar**, Centre of Research for Development, Parul University, India and **Bhawana Pathak**, Central University of Gujrat, India

The book describes hazardous waste industries, sources of waste generation, characterization and treatment processes/ methods, technique and technology to deal with the treated waste as per the prescribed standard. Advanced treatment based on the microbial remediation, plant-based decontamination, rhizoremediation and nano-based remediation is also explained. Advances in treatment technology using biotechnological tools/bionanotechnology for removal of contaminants are described.

CRC Press

Market: Engineering-Environmental

January 2020: 235 x 156: 378pp

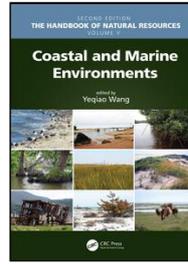
Hb: 978-0-367-27310-1: £140.00

eBook: 978-0-429-29603-1

\* For full contents and more information, visit: [www.crcpress.com/9780367273101](http://www.crcpress.com/9780367273101)

2nd Edition

## Coastal and Marine Environments



Edited by **Yeqiao Wang**, University of Rhode Island, Kingston, USA

Series: *The Handbook of Natural Resources, Second Edition*

This volume covers marine and coastal ecosystems, their biodiversity, conservation and integrated marine management plans. It provides fundamental information on coastal and estuarine systems, and includes discussions on coastal erosion and shoreline change, natural disasters, evaporation and energy balance, fisheries and marine resource management, and more. New in this edition are discussions on sea level rise, renewable energy, coral reef restoration, fishery resource economics, coastal remote sensing. Organized for easy access, this volume

demonstrates the key processes, experience, evidence, methods, and models used in studying marine ecosystems from around the world.

CRC Press

Market: Water Science & Engineering

June 2020: 254 x 178: 387pp

Hb: 978-1-138-33963-7: £140.00

eBook: 978-0-429-44100-4

\* For full contents and more information, visit: [www.crcpress.com/9781138339637](http://www.crcpress.com/9781138339637)

2nd Edition

## Cost-Benefit Analysis of Groundwater Policy and Projects, with Case Studies

**Charles A. Job**, U.S. Environmental Protection Agency, Montgomery Village, Maryland, USA

Series: *Groundwater Economics, Second Edition, Two-Volume Set*

The competition for groundwater sources as a water supply reinforces the need for a strong economic rationale in decision-making. Evaluating economic decisions in the context of total water management and life-cycle water use is essential to making critical development and remediation choices. This revised volume provides fundamental economic and policy concepts related to groundwater, discusses important factors in cost-benefits and life-cycle evaluation, and explains triple-bottom-line analysis for different groundwater projects. It includes new and updated case studies on groundwater issues with solutions for a range of situations based on economic data.

CRC Press

Market: Water Science and Engineering

April 2021: 254 x 178: 410pp

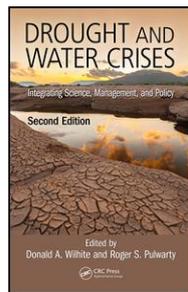
Hb: 978-0-367-20551-5: £120.00

eBook: 978-0-429-26220-3

\* For full contents and more information, visit: [www.crcpress.com/9780367205515](http://www.crcpress.com/9780367205515)

## Drought and Water Crises

Integrating Science, Management, and Policy



Edited by **Donald Wilhite** and **Roger S. Pulwarty**

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

June 2020: 234x156: 582pp

Hb: 978-1-138-03564-5: £160.00

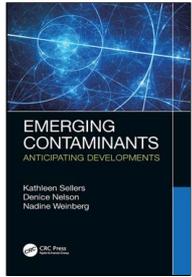
Pb: 978-0-367-57285-3: £41.99

eBook: 978-1-315-26555-1

\* For full contents and more information, visit: [www.crcpress.com/9780367572853](http://www.crcpress.com/9780367572853)

## Emerging Contaminants

Anticipating Developments



**Kathleen Sellers**, ERM, Boston, Massachusetts, USA, **Denice K. Nelson**, Arcadis, Minneapolis, MN, USA and **Nadine Weinberg**

This book examines the factors that have led "new" environmental contaminants to emerge in the past and combines lessons learned from that history to anticipate potential new developments. The analyses described in this book originate in multiple disciplines: the science of toxicology; environmental law and regulation; the field of product stewardship; and the social science which explains why ideas take hold. Over a dozen case studies of contaminants that emerged as issues over the last hundred years illustrate crucial points.

CRC Press

**Market:** Environmental Engineering

December 2019: 235 x 156: 128pp

Hb: 978-0-367-20979-7: **£89.99**

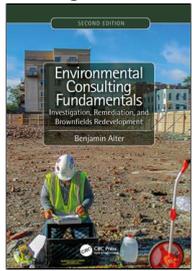
eBook: 978-0-429-26462-7

\* For full contents and more information, visit: [www.crcpress.com/9780367209797](http://www.crcpress.com/9780367209797)

2nd Edition

## Environmental Consulting Fundamentals

Investigation, Remediation, and Brownfields Redevelopment



**Benjamin Alter**, GZA GeoEnvironmental, Inc., Fairfield, New Jersey, USA

The second edition introduces the basic building blocks of environmental consulting by emphasizing the thought processes that go into designing an environmental study, interpreting the data, and selecting the next step for investigation or remediation. This edition is revised and updated with regard to recent technological advances and regulatory changes. It covers the latest environmental issues, including emerging contaminants, and adds a new chapter on Brownfields Redevelopment. It also includes problems and questions to be used for homework assignments or classroom discussions, and provides guidelines

that useful for both students and practicing professionals.

CRC Press

**Market:** Engineering - Environmental

June 2019: 254 x 178: 440pp

Hb: 978-1-138-61320-1: **£110.00**

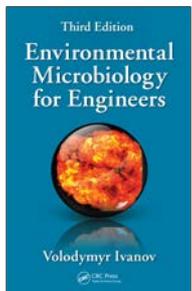
eBook: 978-0-429-46437-9

Prev. Ed Hb: 978-1-439-86890-4

\* For full contents and more information, visit: [www.crcpress.com/9781138613201](http://www.crcpress.com/9781138613201)

3rd Edition

## Environmental Microbiology for Engineers



**Volodymyr Ivanov**, Iowa State University, Ames, USA; Nanyang Technological University, Singapore

The third edition of Environmental Microbiology for Engineers explores the role that microorganisms play in the engineered protection and enhancement of an environment. Offering a perfect balance of microbiological knowledge and environmental biotechnology principles, it provides a practical understanding of microorganisms and their functions in the environment and in the environmental engineering systems. The book also presents a quantitative description of applied microbiological processes and their engineering design.

CRC Press

**Market:** Environmental Science

July 2020: 254 x 178: 524pp

Hb: 978-0-367-32165-9: **£90.00**

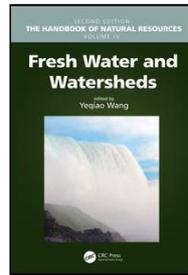
eBook: 978-0-429-31715-6

Prev. Ed Hb: 978-1-498-70212-6

\* For full contents and more information, visit: [www.crcpress.com/9780367321659](http://www.crcpress.com/9780367321659)

2nd Edition

## Fresh Water and Watersheds



Edited by **Yeqiao Wang**, University of Rhode Island, Kingston, USA

Series: *The Handbook of Natural Resources, Second Edition*

This volume covers fresh water and watersheds, their health and conservation, protection and management. Organized for ease of reference, the handbook provides fundamental information on groundwater storage, water quality, supply and balance, and water resource vulnerability. New in this edition are discussions on water footprint assessment, water surface dynamics, and water management on a global scale. Understanding the conditions of watersheds is crucial for restoring areas with degraded water quality, as well as protecting healthy waters

from emerging problems. This book presents the key processes, methods, and models used through several practical case studies from around the world.

CRC Press

**Market:** Water Science & Engineering

June 2020: 254 x 178: 376pp

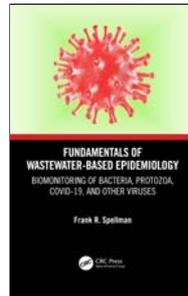
Hb: 978-1-138-33756-5: **£140.00**

eBook: 978-0-429-44104-2

\* For full contents and more information, visit: [www.crcpress.com/9781138337565](http://www.crcpress.com/9781138337565)

## Fundamentals of Wastewater-Based Epidemiology

Biomonitoring of Bacteria, Protozoa, Covid-19, and Other Viruses



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

Wastewater-based epidemiology is an emerging science that has proven to be a cost- and time-effective biomonitoring tool. This book provides a roadmap to detecting wastewater-borne pathogenic contaminants such as viruses, bacteria, fungi and others. It provides a basic, fundamental discussion of how sampling and monitoring of wastewater using epidemiological concepts and practices can aid in determining the presence of the COVID-19 virus in a community, for example, and may help predict future outbreaks.

CRC Press

May 2021: 234x156: 288pp

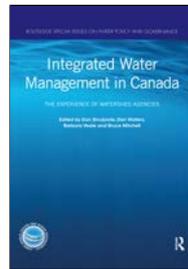
Hb: 978-0-367-75806-6: **£89.99**

eBook: 978-1-003-17010-5

\* For full contents and more information, visit: [www.crcpress.com/9780367758066](http://www.crcpress.com/9780367758066)

## Integrated Water Management in Canada

The Experience of Watershed Agencies



Edited by **Dan Shrubsole**, **Dan Walters**, **Barbara Veale** and **Bruce Mitchell**

This edited volume enables readers to gain insight on the best practices in Canada for achieving success or addressing barriers to implement IWM. The chapters were originally published in a special issue of the *International Journal of Water Resources Development*.

Routledge

August 2020: 246x174: 196pp

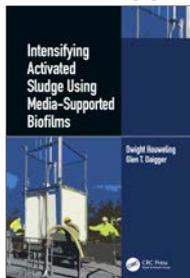
Hb: 978-1-138-58691-8: **£120.00**

Pb: 978-0-367-58899-1: **£36.99**

eBook: 978-0-429-50418-1

\* For full contents and more information, visit: [www.routledge.com/9780367588991](http://www.routledge.com/9780367588991)

## Intensifying Activated Sludge Using Media-Supported Biofilms



Dwight Houweling and Glen T. Daigger

Intensifying Activated Sludge Using Media-Supported Biofilms will be of interest to practicing wastewater treatment process designers. The advantages of Moving Bed Biological Reactor (MBBR)-based hybrid processes are now well-established in practice, leading to their increased use in the field. Membrane Aerated Biofilm Reactor (MABR)-based hybrid processes are much newer and offer further systematic process and energy advantages. This book examines the evolution of hybrid technologies as well as the potential for continued improvement of biological wastewater treatment techniques.

CRC Press

Market: Environmental Engineering

August 2019: 235 x 156: 158pp

Hb: 978-0-367-20227-9: £89.99

eBook: 978-0-429-26027-8

\* For full contents and more information, visit: [www.crcpress.com/9780367202279](http://www.crcpress.com/9780367202279)

2nd Edition

## Production, Use, and Sustainability of Groundwater

Charles A. Job, U.S. Environmental Protection Agency, Montgomery Village, Maryland, USA

Groundwater is becoming increasingly scarce while the demand for water continues to grow at a global scale. Understanding groundwater resources and their sustainable management is imperative for the future of groundwater use, conservation, and protection. This revised and updated volume, focused on sustainability, covers the economic values of groundwater production and use including: micro- and macro-economic factors, economic evaluation tools, climate change, boundary issues, and policy evaluation. It explores numerous applications and describes ways to evaluate the economics of groundwater use in the context of the larger ecosystem and the natural capital it provides.

CRC Press

Market: Water Science and Engineering

April 2021: 254 x 178: 456pp

Hb: 978-0-367-20547-8: £120.00

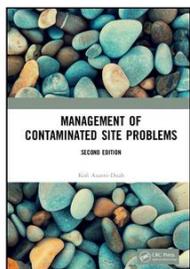
eBook: 978-0-429-26219-7

Prev. Ed Hb: 978-1-439-80900-6

\* For full contents and more information, visit: [www.crcpress.com/9780367205478](http://www.crcpress.com/9780367205478)

2nd Edition

## Management of Contaminated Site Problems



Kofi Asante-Duah

This book outlines the strategies used in the investigation, characterization, management, and restoration and remediation for various contaminated sites. It draws on real-world examples from across the globe to illustrate remediation techniques and discusses their applicability. It provides guidance for the successful corrective action assessment and response programs for any type of contaminated land problem, and at any location. The systematic protocols presented will aid environmental professionals in managing contaminated land and associated problems more efficiently. This new edition adds twelve new chapters, and is fully updated and expanded throughout.

CRC Press

Market: Engineering - Environmental

May 2019: 254 x 178: 628pp

Hb: 978-1-498-76156-7: £130.00

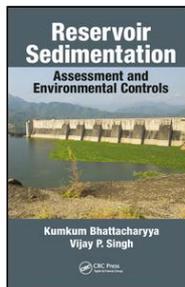
eBook: 978-0-429-19802-1

Prev. Ed Hb: 978-1-566-70079-5

\* For full contents and more information, visit: [www.crcpress.com/9781498761567](http://www.crcpress.com/9781498761567)

## Reservoir Sedimentation

Assessment and Environmental Controls



Kumkum Bhattacharyya and Vijay P. Singh, Texas A&M University, College Station, USA

This book appraises the issues of sedimentation in reservoirs and discusses measures that can be employed for the effective management of sediment to prolong the operational life of reservoirs. It provides information for professional consultants and policymakers to enable them to manage dams in the best possible way in order to ensure their sustainability as well as the sustainability of water resources. It examines the effects of anthropogenic intervention and management of sediment in dams and reservoirs, as water resources become more sensitive and the demand for clean water increases.

CRC Press

Market: Engineering - Civil

January 2019: 235 x 156: 342pp

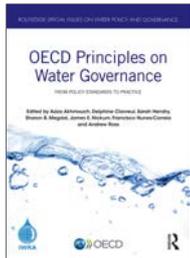
Hb: 978-1-138-49363-6: £120.00

eBook: 978-1-351-02750-2

\* For full contents and more information, visit: [www.crcpress.com/9781138493636](http://www.crcpress.com/9781138493636)

## OECD Principles on Water Governance

From policy standards to practice



Edited by Aziza Akhmouch, Delphine Clavreul, Sarah Hendry, Sharon Megdal, James Nickum, Francisco Nunes-Correia and Andrew Ross

This book contributes to further closing the gap between the academic literature, practitioners and policy makers in water management. This book was originally published as a special issue of *Water International*.

Routledge

June 2020: 246x174: 148pp

Hb: 978-1-138-32976-8: £120.00

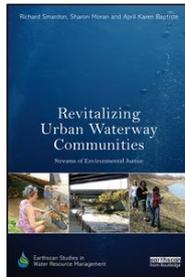
Pb: 978-0-367-58426-9: £36.99

eBook: 978-0-429-44805-8

\* For full contents and more information, visit: [www.routledge.com/9780367584269](http://www.routledge.com/9780367584269)

## Revitalizing Urban Waterway Communities

Streams of Environmental Justice



Richard Smardon, Sharon Moran and April Karen Baptiste

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

June 2020: 234x156: 228pp

Hb: 978-1-138-69861-1: £120.00

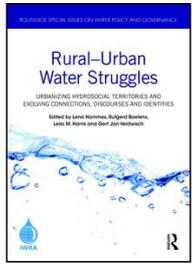
Pb: 978-0-367-60589-6: £29.99

eBook: 978-1-315-47497-7

\* For full contents and more information, visit: [www.routledge.com/9780367605896](http://www.routledge.com/9780367605896)

## Rural–Urban Water Struggles

Urbanizing Hydrosocial Territories and Evolving Connections, Discourses and Identities



Edited by **Lena Hommes**, Wageningen University, the Netherlands, **Rutgerd Boelens**, Wageningen University, Netherlands and Catholic University, Peru, **Leila M. Harris**, University of British Columbia, Canada and **Gert Jan Veldwisch**, Wageningen University, the Netherlands

*Series: Routledge Special Issues on Water Policy and Governance*

This book compiles diverse analyses of rural-urban water connections, discourses, identities and struggles evolving in the context of urbanization around the world. The chapters demonstrate the need to reconsider and trouble the rural-urban dichotomy. The contributors scrutinize how existing approaches for securing urban water supply all rely on a myriad of techniques

and show the need to better understand on-the-ground realities, taking account of inequalities in water access and control, as well as representation and cultural-political recognition among rural and urban subjects.

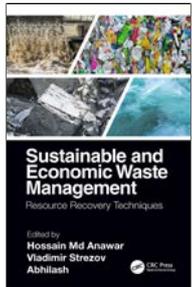
Routledge

**Market:** Water / Environment  
August 2019: 246x174: 196pp  
Hb: 978-0-367-37004-6: **£120.00**  
eBook: 978-0-429-35442-7

\* For full contents and more information, visit: [www.routledge.com/9780367370046](http://www.routledge.com/9780367370046)

## Sustainable and Economic Waste Management

Resource Recovery Techniques



Edited by **Hossain Md Anwar**, Macquarie University, Australia, **Vladimir Strezov** and **Abhilash**

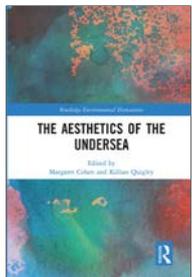
Research findings directly related to sustainable and economic waste management and resource recovery techniques are summarised here. Mining wastes, municipal, urban, domestic, industrial and agricultural wastes and effluents, that contain persistent organic contaminants, nanoparticle organic chemicals, nutrients, energy, organic materials, heavy metal, rare earth elements, iron, steel, bauxite, coal and other valuable materials, are greatly responsible for environmental contamination. They increase threats to human life and biodiversity.

CRC Press

**Market:** Environmental Science  
December 2019: 254 x 178: 328pp  
Hb: 978-0-367-23255-9: **£150.00**  
eBook: 978-0-429-27907-2

\* For full contents and more information, visit: [www.crcpress.com/9780367232559](http://www.crcpress.com/9780367232559)

## The Aesthetics of the Undersea



Edited by **Margaret Cohen** and **Killian Quigley**

Among global environments, the undersea is unique in the challenges it poses – and the opportunities it affords – for sensation, perception, inquiry, and fantasy. *The Aesthetics of the Undersea* draws case studies, ranging from baroque and rococo fantasies to the gothic, surrealism, modernism, and contemporary installation art. As ocean health acquires an increasing share of the global environmental imaginary, the histories of submarine sense manifest ever-greater importance, and offer resources for documentation as well as creativity. *The Aesthetics of the Undersea* establishes crucial relations among temporally remote entities, which will resonate across the environmental hu

Routledge

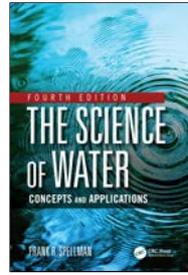
September 2020: 234x156: 252pp  
Hb: 978-0-367-00158-2: **£120.00**  
Pb: 978-0-367-66284-4: **£36.99**  
eBook: 978-0-429-44420-3

\* For full contents and more information, visit: [www.routledge.com/9780367662844](http://www.routledge.com/9780367662844)

4th Edition

## The Science of Water

Concepts and Applications



**Frank R. Spellman**, Spellman Environmental Consulting, Norfolk, Virginia, USA

The Science of Water: Concepts and Applications, Fourth Edition contains a wealth of scientific information and is based on real-world experience. Building on the third edition, this text applies the latest data and research in the field, and addresses water contamination as a growing problem. The book material covers a wide range of water contaminants, the cause of these contaminants, and considers their impact on surface water and groundwater sources. It also explores sustainability and the effects of human use, misuse, and reuse of freshwater and wastewater on the overall water supply.

CRC Press

**Market:** Water Science, Technology and Engineering

October 2020: 254 x 178: 636pp

Hb: 978-0-367-53845-3: **£140.00**

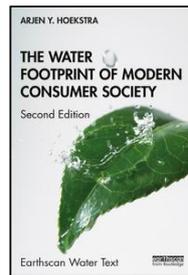
eBook: 978-1-003-09419-7

Prev. Ed Hb: 978-1-482-24293-5

\* For full contents and more information, visit: [www.crcpress.com/9780367538453](http://www.crcpress.com/9780367538453)

2nd Edition

## The Water Footprint of Modern Consumer Society



**Arjen Y. Hoekstra**

*Series: Earthscan Water Text*

Using the water footprint concept, this impactful book aids our understanding of how we can reduce water consumption and pollution to sustainable levels. *The Water Footprint of Modern Consumer Society* is a key textbook for students of interdisciplinary water studies and those taking other related courses within the environmental sciences. It will also be of interest to those working in the governmental sector, environmental and consumer organisations, the business sector and UN institutions, where there is growing interest in the water footprint concept.

Routledge

**Market:** Environment & Sustainability/ Water Resource Management

July 2019: 234x156: 294pp

Hb: 978-1-138-35477-7: **£120.00**

Pb: 978-1-138-35478-4: **£36.99**

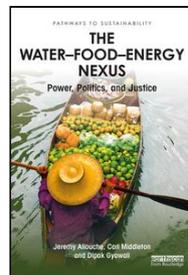
eBook: 978-0-429-42455-7

Prev. Ed Pb: 978-1-849-71427-3

\* For full contents and more information, visit: [www.routledge.com/9781138354784](http://www.routledge.com/9781138354784)

## The Water–Food–Energy Nexus

Power, Politics, and Justice



**Jeremy Allouche**, Carl Middleton, Chulalongkorn University, Thailand and **Dipak Gyawali**, Nepal Water Conservation Foundation (NWCF)

*Series: Pathways to Sustainability*

This book lays out the managerial-technical definitions of the nexus and challenges these conceptions by bringing to the forefront the politics of the nexus, around two key dimensions – a dynamic understanding and a normative positioning. The authors argue that a shift in nexus governance is required towards approaches where limits to control are acknowledged, and more reflexive/plural strategies adopted. This book will be of interest to academic researchers, policy makers and practitioners in the fields of international development studies, environmental politics, science and technology studies as well as international relations.

Routledge

**Market:** Development Studies / Energy

April 2019: 234x156: 150pp

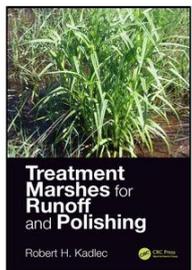
Hb: 978-1-138-71427-4: **£120.00**

Pb: 978-0-415-33283-5: **£34.99**

eBook: 978-1-315-20906-7

\* For full contents and more information, visit: [www.routledge.com/9780415332835](http://www.routledge.com/9780415332835)

## Treatment Marshes for Runoff and Polishing



Robert H. Kadlec

Treatment Marshes for Runoff and Polishing represents the most comprehensive and up-to-date resource for the design, construction, and operation of marsh treatment systems.

This new edition represents a complete re-write of the surface flow sections of previous editions of *Treatment Wetlands*. It is based on the performance hundreds of treatment marshes over the past forty years. *Treatment Marshes* focuses on urban and agricultural runoff, river and lake water improvement, and highly treated municipal effluents.

New information from the past dozen years is used to improve data interpretation and design concepts.

CRC Press

Market: Water Science & Engineering

July 2019: 254 x 178: 1030pp

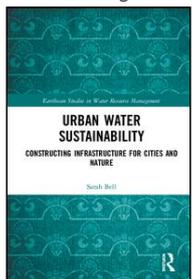
Hb: 978-1-138-32262-2: £150.00

eBook: 978-0-429-45193-5

\* For full contents and more information, visit: [www.crcpress.com/9781138322622](http://www.crcpress.com/9781138322622)

## Urban Water Sustainability

Constructing Infrastructure for Cities and Nature



Sarah Bell

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

June 2020: 234x156: 200pp

Hb: 978-1-138-92990-6: £120.00

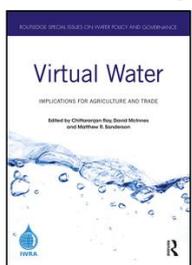
Pb: 978-0-367-59348-3: £36.99

eBook: 978-1-315-68081-1

\* For full contents and more information, visit: [www.routledge.com/9780367593483](http://www.routledge.com/9780367593483)

## Virtual Water

Implications for Agriculture and Trade



Edited by Chittaranjan Ray, University of Nebraska, USA,

David McInnes, DMCI Strategies & Canada 2020 and

Matthew Sanderson, Kansas State University, USA

Series: *Routledge Special Issues on Water Policy and Governance*

This book explores the role of "virtual water" – the water embedded in a product – in ongoing conversations of agriculture, trade and sustainability in an increasingly inter-connected world. The chapters consider questions of gaps in knowledge, why sustainability matters, and the policy implications of virtual water trade. Contributors show how water is a lens through which to examine an array of vital issues facing humanity and the planet: human and animal health; food

production; environmental management; resource consumption; climate change adaptation and mitigation; economic development, trade and competitiveness; and ethics and consumer trust.

Routledge

Market: Water / Environment

December 2019: 246x174: 206pp

Hb: 978-0-367-40807-7: £120.00

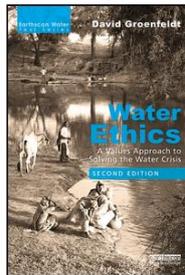
eBook: 978-0-367-80918-8

\* For full contents and more information, visit: [www.routledge.com/9780367408077](http://www.routledge.com/9780367408077)

2nd Edition

## 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

Market: Environment & Sustainability/Natural Resource Management/ Water Management/Ethics

March 2019: 234x156: 248pp

Hb: 978-0-815-39201-9: £120.00

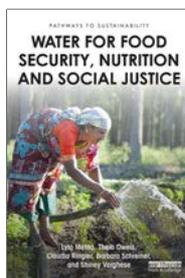
Pb: 978-0-815-39202-6: £36.99

eBook: 978-1-351-20019-6

Prev. Ed Pb: 978-0-415-62645-3

\* For full contents and more information, visit: [www.routledge.com/9780815392026](http://www.routledge.com/9780815392026)

## Water for Food Security, Nutrition and Social Justice



Lyla Mehta, Theib Oweis, CGIAR/ICARDA, Amman, Jordan,

Claudia Ringler, International Food Policy Research Institute,

Washington DC, USA, Barbara Schreiner and Shiney

Varghese

Series: *Pathways to Sustainability*

This book is a comprehensive and holistic assessment of water for human food security and nutrition (FSN), focusing on technical, institutional, socio-economic, cultural and political dimensions. It proposes a paradigm change in the way water is managed in agriculture as well as addressing complex knowledge and governance challenges at scale. This book makes a case for strengthening the relationship between the right to water and the right to food and will be of great interest to practitioners, students and researchers working on water and food issues.

Routledge

Market: Development Studies / Water

October 2019: 234x156: 232pp

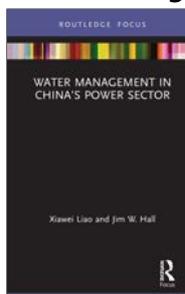
Hb: 978-1-138-72916-2: £120.00

Pb: 978-1-138-72918-6: £34.99

eBook: 978-1-351-74762-2

\* For full contents and more information, visit: [www.routledge.com/9781138729186](http://www.routledge.com/9781138729186)

## Water Management in China's Power Sector



Xiawei Liao, University of Oxford, UK and Jim W. Hall,

University of Oxford, UK

Series: *Earthscan Studies in Water Resource Management*

This book examines water resource management in China's electric power sector and the implications for energy provision in the face of an emerging national water crisis and global climate change.

Enriching the water-energy nexus literature, this book will be of great interest to students and scholars working on water resource management, energy industries and Chinese environmental policy, as well as policymakers and practitioners in those fields.

Routledge

Market: Water Resource Management / China / Energy

November 2020: 216x138: 132pp

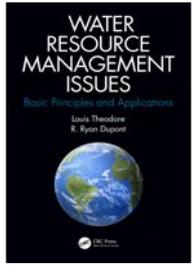
Hb: 978-0-367-35005-5: £45.00

eBook: 978-0-429-34659-0

\* For full contents and more information, visit: [www.routledge.com/9780367350055](http://www.routledge.com/9780367350055)

## Water Resource Management Issues

Basic Principles and Applications



Edited by **Louis Theodore**, Manhattan College, New York, USA and **R. Ryan Dupont**, Utah State University, Logan, USA

This new book, *Drinking Water Safety: Basic Principles and Applications*, examines the technical and scientific, as well as regulatory, issues regarding safe drinking water and related topics in order to cope with environmental pollution. It presents the latest water treatment technologies and processes, including separate chapters on evaporation, crystallization, and nanotechnology approaches. It also offers numerous illustrative examples and case studies, as well as an appendix with sections on units, conversion constants, area and volume equations, key global contacts, internet links, and examples of relevant

computer programs.

CRC Press

**Market:** Water Science and Engineering

December 2019: 254 x 178: 444pp

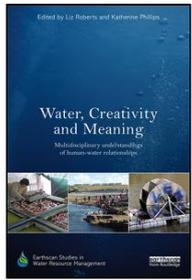
Hb: 978-0-367-18385-1: **£120.00**

eBook: 978-0-429-06127-1

\* For full contents and more information, visit: [www.crcpress.com/9780367183851](http://www.crcpress.com/9780367183851)

## Water, Creativity and Meaning

Multidisciplinary understandings of human-water relationships



Edited by **Liz Roberts** and **Katherine Phillips**

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.

Routledge

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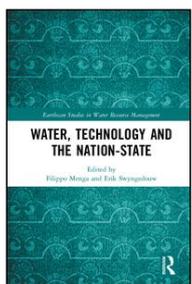
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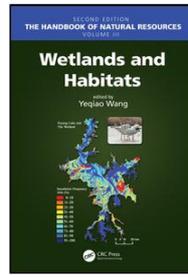
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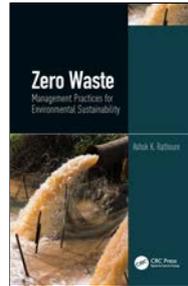
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- 'One Planet' Cities ..... 47
- A**
- Accounting for Sustainability ..... 64
- Advanced Coal Preparation and Beyond ..... 12
- Advanced Simulation of Alternative Energy ..... 59
- Advances in Carbon Management Technologies ..... 2
- Advances in Clean Energy ..... 12
- Advances in SAR Remote Sensing of Oceans ..... 32
- Advances in Waste-to-Energy Technologies ..... 68
- Aesthetics of the Undersea, The ..... 71
- Africa's Mineral Fortune ..... 12
- Age of Sustainability, The ..... 51
- Agent-Based Modeling of Environmental Conflict and Cooperation ..... 21
- Agricultural and Agribusiness Law ..... 27
- Air Quality ..... 4
- Alternative Fusion Fuels and Systems ..... 12
- Analytics and Optimization for Renewable Energy Integration ..... 12
- Anthropocene Antarctica ..... 42
- Anthropocene Debate and Political Science, The ..... 41
- Anthropocene in Global Media, The ..... 51
- Appraising the Economics of Smart Meters ..... 35
- Atmospheric Research in Antarctica ..... 4
- Australian Climate Policy and Diplomacy ..... 4
- B**
- Batch Adsorption Process of Metals and Anions for Remediation of Contaminated Water ..... 21
- Beyond Recycling ..... 42
- Beyond the Blue Economy ..... 42
- Biodiesel Fuels ..... 13
- Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae ..... 13
- Bioeconomy Approach, The ..... 51
- Biogas Technology ..... 13
- Biomass in Small-Scale Energy Applications ..... 13
- Bioremediation Technology ..... 68
- Blue Ecocriticism and the Oceanic Imperative ..... 42
- Buen Vivir as an Alternative to Sustainable Development ..... 64
- Building Energy Simulation ..... 59
- Business Battles in the US Energy Sector ..... 13
- C**
- Carbon Capture, Storage and Utilization ..... 21
- Carbon Inequality ..... 64
- Chemo-Biological Systems for CO<sub>2</sub> Utilization ..... 21
- Children, Citizenship and Environment ..... 64
- Circular Cities ..... 42
- Circular Economy and the Global South, The ..... 51
- Circular Economy in Europe, The ..... 37
- Cities Leading Climate Action ..... 4
- Climate Adaptation Finance and Investment in California ..... 4
- Climate and Energy Politics in Poland ..... 4
- Climate Change Discourse in Russia ..... 5
- Climate Change Ethics for an Endangered World ..... 5
- Climate Change Governance and Adaptation ..... 5
- Climate Change Impacts on Coastal Soil and Water Management ..... 5
- Climate Change in the Global Workplace ..... 5
- Climate Change Justice and Global Resource Commons ..... 5
- Climate Change Law in China in Global Context ..... 27
- Climate Change Solutions and Environmental Migration ..... 6
- Climate Change Temporalities ..... 6
- Climate Change, Moral Panics and Civilization ..... 6
- Climate Change, Politics and the Press in Ireland ..... 6
- Climate Diplomacy and Emerging Economies ..... 6
- Climate Justice and Collective Action ..... 6
- Climate Justice and Community Renewal ..... 7
- Climate Politics in Small European States ..... 39
- Coalitions in the Climate Change Negotiations ..... 7
- Coastal and Marine Environments ..... 68
- Collaborative Environmental Governance Frameworks ..... 27
- Common Sense in Environmental Management ..... 43
- Communication Strategies for Engaging Climate Skeptics ..... 7
- Conflicts over Marine and Coastal Common Resources ..... 35
- Conservation and Development in Uganda ..... 56
- Conserving Europe's Wildlife ..... 27
- Contemplating Climate Change ..... 7
- Contemporary Climate Change Debates ..... 7
- Converging Social Justice Issues and Movements ..... 39
- Coordinating Public and Private Sustainability ..... 27
- Corporate Environmental Management, Second Edition ..... 27
- Cost Engineering for Pollution Prevention and Control ..... 7
- Cost-Benefit Analysis of Groundwater Policy and Projects, with Case Studies ..... 68
- COVID-19 and Emerging Environmental Trends ..... 43
- Creative Arts in Governance of Urban Renewal and Development, The ..... 52
- Creative Philosophy of Anticipation, A ..... 42
- D**
- Dance of Death in Late Medieval and Renaissance Europe, The ..... 52
- Daoism and Environmental Philosophy ..... 43
- Data-Driven Analytics for the Geological Storage of CO<sub>2</sub> ..... 21
- De-centring Land Grabbing ..... 39
- Decarbonising Electricity Made Simple ..... 13
- Designing an Innovative Pedagogy for Sustainable Development in Higher Education ..... 2
- Designing with Photovoltaics ..... 59
- Discourses of Environmental Collapse, The ..... 52
- Drought and Water Crises ..... 68
- E**
- Eco-Engineered Bioreactors ..... 21
- Ecological Integrity, Law and Governance ..... 28
- Ecological Law and the Planetary Crisis ..... 28
- Economics of Renewable Energy in the Gulf, The ..... 52
- Ecoregionalism ..... 35
- Ecosocialism and Climate Justice ..... 8
- Electricity and Energy Transition in Nigeria ..... 14
- Electrochemical Water Electrolysis ..... 22
- Electromechanical Energy Conversion ..... 22
- Emerging Contaminants ..... 69
- Emerging Contaminants Handbook ..... 22
- Emerging Global Consensus on Climate Change and Human Mobility, The ..... 10
- Emerging Green Technologies ..... 2
- Energy Access and Forced Migration ..... 14
- Energy and Development ..... 14
- Energy and Environmental Outlook for South Asia ..... 22
- Energy as a Sociotechnical Problem ..... 14
- Energy Cooperation in South Asia ..... 14
- Energy Efficiency in Developing Countries ..... 14
- Energy Fables ..... 15
- Energy Policies and Climate Change in China ..... 8
- Energy Storage, Grid Integration, Energy Economics, and the Environment ..... 22
- Environmental Conflict and Cooperation ..... 35
- Energy Transition ..... 59
- Energy, Resource Extraction and Society ..... 15
- Environmental Communication Among Minority Populations ..... 43
- Environmental Compliance and Sustainability ..... 28
- Environmental Consulting Fundamentals ..... 69
- Environmental Economics ..... 43
- Environmental Ethics and Uncertainty ..... 43
- Environmental Finance for the Developing World ..... 8
- Environmental Health and the U.S. Federal System ..... 44
- Environmental History of Australian Rainforests until 1939, An ..... 56
- Environmental Humanities and the Uncanny ..... 44
- Environmental Impact of Overpopulation, The ..... 52
- Environmental Justice ..... 35
- Environmental Justice and Oil Pollution Laws ..... 28
- Environmental Law Across Cultures ..... 28
- Environmental Law and Governance in the Pacific ..... 28
- Environmental Literacy and New Digital Audiences ..... 44
- Environmental Management Handbook, Second Edition – Six Volume Set ..... 32
- Environmental Microbiology for Engineers ..... 69
- Environmental Policy and Public Health ..... 35
- Environmental Policy in India ..... 36
- Environmental Sustainable Development Goals in Bangladesh, The ..... 67
- Environmentalism under Authoritarian Regimes ..... 39
- Essential Concepts of Global Environmental Governance ..... 64
- Ethical Responses to Nature's Call ..... 44
- Ethics in Danish Energy Policy ..... 15
- Ethos of the Climate Event, The ..... 10
- EU Environmental Governance ..... 36
- European Law on Combined Heat and Power ..... 15
- European Union and Global Environmental Protection, The ..... 37
- Evaluating Environment in International Development ..... 44
- Exergetic Aspects of Renewable Energy Systems ..... 15
- Extracting Innovations ..... 22
- F**
- Farmers and Plant Breeding ..... 29
- Farming Systems and Food Security in Africa ..... 44
- Flood Resilience of Private Properties ..... 45
- Flood Risk Management ..... 8
- Food for Degrowth ..... 45
- Forest Conservation and Sustainability in Indonesia ..... 56
- Forest Landscape Restoration ..... 56
- Forest Management Auditing ..... 56
- Forestry in the Midst of Global Changes ..... 57
- Fossil Free Fuels ..... 59
- Free Movement and the Energy Sector in the European Union ..... 15
- Fresh Water and Watersheds ..... 69
- From Environmental to Ecological Law ..... 29
- From Waste to Value ..... 57
- Fundamentals and Source Characteristics of Renewable Energy Systems ..... 59
- Fundamentals of Combustion Engineering ..... 60
- Fundamentals of Ecotoxicology ..... 23
- Fundamentals of Microgrids ..... 16
- Fundamentals of Natural Gas Processing, Third Edition ..... 23
- Fundamentals of Public Utilities Management ..... 32
- Fundamentals of Sustainable Development ..... 64
- Fundamentals of Wastewater-Based Epidemiology ..... 69
- Future of European Union Environmental Politics and Policy, The ..... 41
- G**
- Geographies of Post-Industrial Place, Memory, and Heritage ..... 45
- Geomagnetic Disturbances Impacts on Power Systems ..... 23
- Good Farmer, The ..... 52
- Governing Renewable Natural Resources ..... 45
- Governing Technology in the Quest for Sustainability on Earth ..... 65
- Green and Smart Technologies for Smart Cities ..... 2
- Green Energy and Infrastructure ..... 60
- Green Productivity and Cleaner Production ..... 2
- Green, Reliable and Viable: Perspectives on India's Shift Towards Low-Carbon Energy ..... 60
- Greening of US Free Trade Agreements, The ..... 53
- H**
- Handbook of Biodiesel and Petrodiesel Fuels ..... 16
- Handbook of Petrochemical Processes ..... 23
- Happiness, Well-being and Sustainability ..... 45
- History of Energy Flows, A ..... 12
- How Solar Energy Became Cheap ..... 60
- Human Rights and the Environment ..... 36
- Humans and Lions ..... 45

Hybrid Energy Systems ..... 16  
 Hybrid Power ..... 60

**I**

Imagining Climate Engineering ..... 46  
 Independent Thinking in an Uncertain World ..... 46  
 Indigenous Futures and Learnings Taking Place ..... 46  
 Indigenous, Modern and Postcolonial Relations to Nature ..... 46  
 Innovative Wind Turbines ..... 60  
 Insuring Against Climate Change ..... 8  
 Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products ..... 23  
 Integrated Water Management in Canada ..... 69  
 Intensifying Activated Sludge Using Media-Supported Biofilms ..... 70  
 Interdisciplinary Collaboration for Water Diplomacy ..... 39  
 International Environmental Law Compliance in Context ..... 29  
 International Environmental Risk Management ..... 29  
 Introduction to Computing Applications in Forestry and Natural Resource Management ..... 23  
 Introduction to Energy Analysis ..... 16  
 Introduction to Renewable Energy Conversions ..... 61  
 Introduction to Renewable Power Systems and the Environment with R ..... 61  
 Introduction to Sustainability for Engineers ..... 24

**J**

Jainism and Environmental Politics ..... 40

**L**

Legal Perspectives on Bridging Science and Policy ..... 46  
 Legal Rights for Rivers ..... 29  
 Liberty and the Ecological Crisis ..... 46  
 Limits to Terrestrial Extraction ..... 40  
 Linear Induction Accelerators for High-Power Microwave Devices ..... 16  
 Linking the European Union Emissions Trading System ..... 8  
 Local Activism for Global Climate Justice ..... 9  
 Local Consumption and Global Environmental Impacts ..... 47  
 Low Carbon Energy Supply Technologies and Systems ..... 61

**M**

Mainstreaming Natural Capital and Ecosystem Services into Development Policy ..... 47  
 Mainstreaming Solar Energy in Small, Tropical Islands ..... 16  
 Management of Contaminated Site Problems, Second Edition ..... 70  
 Managing Air Quality and Energy Systems ..... 32  
 Managing Biological and Ecological Systems ..... 32  
 Managing Complexity: Earth Systems and Strategies for the Future ..... 47  
 Managing Global Resources and Universal Processes ..... 32

Managing Human and Social Systems ..... 33  
 Managing Soils and Terrestrial Systems ..... 33  
 Managing Water Resources and Hydrological Systems ..... 33  
 Marine and Fisheries Policies in Latin America ..... 29  
 Marine Policy ..... 36  
 Masculinities in Forests ..... 57  
 Measuring Intangible Values ..... 65  
 Membrane Desalination ..... 2  
 Metagovernance for Sustainability ..... 65  
 Microbes in Agriculture and Environmental Development ..... 24  
 Microbial Electrochemical Technologies ..... 61  
 Modular Systems for Energy and Fuel Recovery and Conversion ..... 17  
 Modular Systems for Energy Usage Management ..... 24  
 Moroccan Argan Trade, The ..... 57  
 Multi-Criteria Decision Analysis ..... 24

**N**

Narratives of Low-Carbon Transitions ..... 17  
 Natural and Enhanced Attenuation of Contaminants in Soils, Second Edition ..... 24  
 Natural Resource Conflicts and Sustainable Development ..... 40  
 Natural Resources and the Environment ..... 47  
 Nature-Based Solutions to 21st Century Challenges ..... 33  
 Negotiating Gender Expertise in Environment and Development ..... 47  
 Negotiating the Environment ..... 65  
 Network Governance and Energy Transitions in European Cities ..... 17  
 New Era for Collaborative Forest Management, A ..... 56  
 New Mechanisms of Participation in Extractive Governance ..... 40  
 New World-System, A ..... 39  
 Nuclear Energy Regulation, Risk and The Environment ..... 17  
 Nuclear Power in Stagnation ..... 17  
 Nuclear Reactor Thermal Hydraulics ..... 61

**O**

OECD Principles on Water Governance ..... 70  
 Offshore Energy and Marine Spatial Planning ..... 17  
 Oil and Gas Processing Equipment ..... 18

**P**

Participatory Networks and the Environment ..... 48  
 Perceptions of Climate Change from North India ..... 9  
 Perspectives on Energy Poverty in Post-Communist Europe ..... 18  
 Petrodiesel Fuels ..... 18  
 Petroleum Industry Transformations ..... 18  
 Philosophy and the Climate Crisis ..... 9  
 Physics of Solar Energy Conversion, The ..... 62  
 Pioneers, Leaders and Followers in Multilevel and Polycentric Climate Governance ..... 40  
 Planning Wild Cities ..... 48  
 Poetics of the Earth ..... 48  
 Policy and Governance in the Water-Energy-Food Nexus ..... 33  
 Political Ecology of REDD+ in Indonesia ..... 57  
 Political Responsibility for Climate Change ..... 9

Politics of Energy Security, The ..... 41  
 Politics of Radioactive Waste Management, The ..... 20  
 Politics of Sustainability in the Arctic, The ..... 41  
 Politics of the Climate Change-Health Nexus, The ..... 11  
 Politics of Urban Sustainability Transitions, The ..... 67  
 Poverty and Climate Change ..... 9  
 Power and Distribution Transformers ..... 24  
 Power and Politics in Sustainable Consumption Research and Practice ..... 65  
 Power Plant Synthesis ..... 61  
 Power Systems Analysis Illustrated with MATLAB and ETAP ..... 25  
 Power Transformer Design Practices ..... 25  
 Power Transmission System Analysis Against Faults and Attacks ..... 25  
 Principles of Environmental Thermodynamics and Kinetics ..... 25  
 Production, Use, and Sustainability of Groundwater ..... 70  
 Promise of Nostalgia, The ..... 53  
 PV and the NEC ..... 62

**R**

REACH and the Environmental Regulation of Nanotechnology ..... 30  
 Redesigning Petroleum Taxation ..... 18  
 Reducing Greenhouse Gas Emissions and Improving Air Quality ..... 9  
 Reframing Energy Access ..... 18  
 Regenerative Urban Development, Climate Change and the Common Good ..... 10  
 Relativistic Magnetrons ..... 19  
 Renewable Energy Enterprises in Emerging Markets ..... 62  
 Renewable Energy for the Arctic ..... 19  
 Renewable Energy Systems ..... 62  
 Renewable Energy Uptake in Urban Latin America ..... 36  
 Reporting Climate Change in the Global North and South ..... 10  
 Reservoir Sedimentation ..... 70  
 Resolving Environmental Conflicts ..... 30  
 Resources, Financial Risk and the Dynamics of Growth ..... 36  
 Rethinking Wilderness and the Wild ..... 33  
 Revitalizing Urban Waterway Communities ..... 70  
 Rise and Rise of Indicators, The ..... 11  
 River Flows Through It, A ..... 68  
 Riverlands of the Anthropocene ..... 48  
 Role of Law in Governing Sustainability, The ..... 30  
 Role of Non-State Actors in the Green Transition, The ..... 37  
 Routledge Handbook of Climate Justice ..... 19  
 Routledge Handbook of Ecocriticism and Environmental Communication ..... 48  
 Routledge Handbook of Ecocultural Identity ..... 48  
 Routledge Handbook of Energy Economics ..... 49  
 Routledge Handbook of Environmental Accounting ..... 49  
 Routledge Handbook of Environmental Conflict and Peacebuilding ..... 49  
 Routledge Handbook of Environmental Displacement and Migration ..... 49  
 Routledge Handbook of Environmental Journalism ..... 49  
 Routledge Handbook of Food as a Commons ..... 30

Routledge Handbook of Global Sustainability Governance ..... 40  
 Routledge Handbook of Human Rights and Climate Governance ..... 10  
 Routledge Handbook of Sustainability Indicators ..... 49  
 Routledge Handbook of Sustainable and Regenerative Food Systems ..... 50  
 Routledge Handbook of the Resource Nexus ..... 50  
 Routledge Handbook of the Study of the Commons ..... 57  
 Routledge Handbook of Vegan Studies, The ..... 53  
 Rural-Urban Water Struggles ..... 71

**S**

Science of Water, The ..... 71  
 Smart and Sustainable Cities? ..... 65  
 Smart Geospatial Practices and Applications in Local Government ..... 30  
 Smart Green World? ..... 50  
 Smart Microgrids ..... 25  
 Social Movements Contesting Natural Resource Development ..... 50  
 Solar Drying Systems ..... 62  
 Solar Photocatalysis for Environmental Remediation ..... 25  
 Solar Photovoltaic Power Optimization ..... 19  
 Solar PV Engineering and Installation ..... 62  
 Southern African Landscapes and Environmental Change ..... 50  
 Stakeholder Democracy ..... 37  
 Strategic Designs for Climate Policy Instrumentation ..... 19  
 Subsurface Upgrading of Heavy Crude Oils and Bitumen ..... 19  
 Survival: One Health, One Planet, One Future ..... 50  
 Sustainability ..... 66  
 Sustainability and the Rights of Nature in Practice ..... 30  
 Sustainability Governance and Hierarchy ..... 66  
 Sustainability in an Imaginary World ..... 51  
 Sustainability of Biomass through Bio-based Chemistry ..... 3  
 Sustainability of Business in the Context of Environmental Management ..... 26  
 Sustainability Principles and Practice ..... 66  
 Sustainability Transitions in South Africa ..... 66  
 Sustainability, Conservation, and Creativity ..... 66  
 Sustainability: The Basics ..... 51  
 Sustainable Action ..... 66  
 Sustainable and Economic Waste Management ..... 71  
 Sustainable Community Movement Organizations ..... 41  
 Sustainable Development and Resource Productivity ..... 67  
 Sustainable Development Indicators ..... 34  
 Sustainable Development Teaching ..... 67  
 Sustainable Development, Leadership, and Innovations ..... 67  
 Sustainable Energy Technologies ..... 26

**T**

Teaching Climate Change in the United States ..... 10  
 Temporalities of Waste, The ..... 53  
 Theatre Pedagogy in the Era of Climate Crisis ..... 11

<i>Towards a Climate-Neutral Europe</i> .....	11
<i>Towards a Society of Degrowth</i> .....	53
<i>Traditional Ecological Knowledge and Global Pandemics</i> .....	53
<i>Transdisciplinarity For Sustainability</i> .....	67
<i>Transforming Socio-Natures in Turkey</i> .....	54
<i>Transition Engineering</i> .....	63
<i>Transitions in Energy Efficiency and Demand</i> .....	20
<i>Treatment Marshes for Runoff and Polishing</i> .....	72
<i>Treatment of Industrial Effluents</i> .....	26
<i>Tropical Bioproductivity</i> .....	58

**U**

<i>Understanding Risk to Wildlife from Exposures to Per- and Polyfluorinated Alkyl Substances (PFAS)</i> .....	11
<i>Understanding Urban Cycling</i> .....	54
<i>Urban Ecology and Intervention in the 21st Century Americas</i> .....	54
<i>Urban Gardening as Politics</i> .....	54
<i>Urban Remote Sensing</i> .....	26
<i>Urban Resilience to Droughts and Floods</i> .....	37
<i>Urban Water Sustainability</i> .....	72
<i>Utopia in the Anthropocene</i> .....	54

**V**

<i>Valuing U.S. National Parks and Programs</i> .....	54
<i>Virtual Water</i> .....	72
<i>Visions of Energy Futures</i> .....	37

**W**

<i>Water Allocation Law in New Zealand</i> .....	31
<i>Water Ethics</i> .....	72
<i>Water Footprint of Modern Consumer Society, The</i> .....	71
<i>Water for Food Security, Nutrition and Social Justice</i> .....	72
<i>Water Management in China's Power Sector</i> .....	72
<i>Water Politics</i> .....	38
<i>Water Resource Management Issues</i> .....	73
<i>Water, Creativity and Meaning</i> .....	73
<i>Water, Technology and the Nation-State</i> .....	73
<i>Water-Food-Energy Nexus, The</i> .....	71
<i>Wearable Solar Cell Systems</i> .....	63
<i>Weather, Religion and Climate Change</i> .....	11
<i>Wetlands and Habitats</i> .....	73
<i>What Can I Do to Help Heal the Environmental Crisis?</i> .....	55
<i>Who Needs Nuclear Power</i> .....	20
<i>Wind and Solar Energy Transition in China</i> .....	38
<i>Wind and Solar Power Systems</i> .....	3
<i>World Biodiesel Policies and Production</i> .....	20
<i>Writing a New Environmental Era</i> .....	55

**Z**

<i>Zero Waste: Management Practices for Environmental Sustainability</i> .....	73
<i>Zero-Waste</i> .....	55

- A**
- Acevedo, Miguel F. .... 61  
 Akhmouch, Aziza ..... 70  
 Akhonbay, Hisham M. .... 52  
 Al Faruque, Abdullah ..... 17  
 Al. Katsprakakis, Dimitris ..... 61  
 Alexander, Karen A. .... 35  
 Alexandrowicz, Conrad ..... 11  
 Ali, Saleem H. .... 12  
 Allen, Linda ..... 53  
 Allon, Fiona ..... 53  
 Allouche, Jeremy ..... 71  
 Alter, Benjamin ..... 69  
 Anastasi, Chris ..... 20  
 Anawar, Hossain Md ..... 71  
 Anfinson, Kellan ..... 10  
 Anker, Kirsten ..... 29  
 Arler, Finn ..... 15  
 Arruda, Gisele ..... 19  
 Asante-Duah, Kofi ..... 70  
 Asif, Muhammad ..... 22  
 Atapattu, Sumudu ..... 36  
 Aziz, Maniruzzaman Bin A. .... 59
- B**
- Bartel, Robyn ..... 33  
 Barua, Anamika ..... 5  
 Bauman, Whitney ..... 43  
 Bebbington, Jan ..... 49  
 Beckford, Fitzroy B. .... 9  
 Bell, Caitlin H. .... 22  
 Bell, Sarah ..... 72  
 Bell, Simon ..... 49  
 Belu, Radian ..... 22  
 Belu, Radian ..... 59  
 Belu, Radian ..... 62  
 BenDor, Todd ..... 21  
 Berg, Christian ..... 66  
 Bergmann, Sigurd ..... 11  
 Berque, Augustin ..... 48  
 Berthouex, Paul Mac ..... 7  
 Bhattacharyya, Kumkum ..... 70  
 Bilmes, Linda J. .... 54  
 Bisquert, Juan ..... 62  
 Bleischwitz, Raimund ..... 50  
 Blok, Cornelis ..... 16  
 Bloomfield, Emma ..... 7  
 Bolwell, Dain ..... 65  
 Brain, Stephen ..... 39  
 Brassett, Jamie ..... 42  
 Brears, Robert C. .... 33  
 Brereton, Pat ..... 44  
 Brinia, Vasiliki ..... 2  
 Brooks, Bill ..... 62  
 Brooks, Thom ..... 5  
 Brotto, Lucio ..... 56  
 Brown, Valerie A. .... 46  
 Burton, Rob J.F. .... 52  
 Butler, William H. .... 56  
 Büscher, Christian ..... 14
- C**
- Caniglia, Beth ..... 10  
 Capareda, Sergio ..... 61  
 Carter, Neil ..... 39  
 Cassoret, Bertrand ..... 59  
 Chakrabarti, Sampa ..... 25  
 Chassagne, Natasha ..... 64  
 Chowdhury, Tamalika ..... 25  
 Church, Jon Marco ..... 35  
 Ciecierska-Holmes, Natalia ..... 36  
 Clifford, Martin J. .... 22  
 Cohen, Margaret ..... 71  
 Colfer, Carol J. Pierce ..... 57  
 Coolsaet, Brendan ..... 35  
 Croeser, Eve ..... 8  
 Crossland, Andrew F. .... 13  
 Curley, Michael ..... 8
- D**
- Darabaris, John ..... 27  
 Dark, Stephen M. .... 7
- Das, Jahnnabi ..... 10  
 Davis, Wayne T. .... 4  
 Dekker, Sabrina ..... 4  
 Delbeke, Jos ..... 11  
 Devlin, John F. .... 50  
 Dixon, John ..... 44  
 Dobrin, Sidney I. .... 42  
 Dodds, Felix ..... 37  
 Downie, Christian ..... 13  
 Duncan, Jessica ..... 50  
 Dutta, Joystu ..... 43  
 Duyck, Sébastien ..... 10
- E**
- Eastwood, Lauren E ..... 65  
 Edomah, Norbert ..... 14  
 Erdelen, Walter R. .... 47  
 Erickson, Larry E. .... 9  
 Eritja, Mar Campins ..... 37  
 Evans, James ..... 65
- F**
- Farcy, Christine ..... 57  
 Fath, Brian D. .... 32  
 Fath, Brian D. .... 33  
 Feitshans, Theodore A. .... 27  
 Feng, Kuishuang ..... 47  
 Ferraro, Gianluca ..... 20  
 Forno, Francesca ..... 41  
 Frost, Warwick ..... 56  
 Fulekar, M H ..... 68
- G**
- Gabriel, Cle-Anne ..... 62  
 Gad, Ulrik Pram ..... 41  
 Garg, Vishal ..... 59  
 Garver, Geoffrey ..... 28  
 Giblett, Rod ..... 44  
 Gieseke, Timothy ..... 27  
 Ginsberg, Michael ..... 19  
 Ginty, Anna ..... 6  
 Goel, Malti ..... 21  
 Grafham, Owen ..... 14  
 Greenberg, Michael R ..... 44  
 Groenfeldt, David ..... 72  
 Gusain, Deepak ..... 21
- H**
- Haj-Amor, Zied ..... 5  
 Hamman, Philippe ..... 66  
 Hammond, David ..... 58  
 Hanger-Kopp, Susanne ..... 17  
 Harder, Marie ..... 65  
 Hartmann, Thomas ..... 45  
 Harvey, Michael ..... 54  
 Hasan, Fadia ..... 48  
 Hayward, Bronwyn ..... 64  
 He, Xiangbai ..... 27  
 Hedberg, Trevor ..... 52  
 Hein, Jonas ..... 57  
 Henderson, Joseph ..... 10  
 Hickmann, Thomas ..... 41  
 Higgins, James ..... 21  
 Hiltner, Ken ..... 55  
 Ho, Selina ..... 68  
 Hoekstra, Arjen Y. .... 71  
 Hoff, Jens ..... 37  
 Holdstock, David A. .... 30  
 Holmes, Peter J. .... 50  
 Hommes, Lena ..... 71  
 Houweling, Dwight ..... 70  
 Huda, Mirza Sadaqat ..... 14  
 Hudson, Blake ..... 57  
 Hulme, Mike ..... 7  
 Huppés, Gjalt ..... 19
- I**
- Isenhour, Cindy ..... 65  
 Islam, Shafiqul ..... 39  
 Ivanov, Volodymyr ..... 69
- J**
- Jackson, Andrew L.R. .... 27  
 Jacques, Peter ..... 51  
 Jafry, Tahseen ..... 19  
 Jayaram, Dhanasree ..... 6  
 Jayasinghe, Guttilla Yugantha ..... 2  
 Jenkins, Kirsten E.H. .... 20  
 Jiglaw, George ..... 18  
 Job, Charles ..... 68  
 Job, Charles ..... 70  
 Johnson, Barry L. .... 35  
 Johnson, Mark S. .... 11  
 Joo, Hyunsoo ..... 20  
 Joshi, Shangrila ..... 5  
 Jungmann, Maximilian ..... 11  
 Junker, Kirk W. .... 28
- K**
- Kadlec, Robert H. .... 72  
 Kalfagianni, Agni ..... 40  
 Kallhoff, Angela ..... 6  
 Kanazawa, Mark ..... 47  
 Kawatra, S. Komar ..... 12  
 Keenan, Jesse M. .... 4  
 Keitsch, Martina M. .... 67  
 Kenner, Dario ..... 64  
 Kester, Johannes ..... 41  
 Khare, Nelay ..... 4  
 Kidnay, Arthur J. .... 23  
 Kirsch, Robert ..... 40  
 Kiss, Andrea ..... 52  
 Klitkou, Antje ..... 57  
 Klöck, Carola ..... 7  
 Kocabiyikoğlu, Zeki Uğurata ..... 22  
 Konur, Ozcan ..... 13  
 Konur, Ozcan ..... 13  
 Konur, Ozcan ..... 16  
 Konur, Ozcan ..... 18  
 Konur, Ozcan ..... 38  
 Korsnes, Marius ..... 25  
 Kottayil, Sasi K. .... 25  
 Koulouri, Anastasia ..... 33  
 Kovacic, Zora ..... 37  
 Krumdieck, Susan ..... 63  
 Kumar, Ashok ..... 21  
 Kumar, Pushpam ..... 47  
 Kuraj, Nertila ..... 30  
 Kvanneid, Aase J. .... 9  
 Kverndokk, Kyrre ..... 6
- L**
- La Follette, Cameron ..... 30  
 Lange, Steffen ..... 50  
 Leane, Elizabeth ..... 42  
 Lee, James ..... 35  
 Lehmann, Harry ..... 67  
 Leifsen, Esben ..... 40  
 Li, Xiaofeng ..... 32  
 Liao, Xiawei ..... 72  
 Lin, Han ..... 8  
 Linkov, Igor ..... 24  
 Lis, Aleksandra ..... 4  
 Lueddeke, George R. .... 50  
 López López, Ligia (Licho) ..... 46
- M**
- Maggs, David ..... 51  
 Magrini, James ..... 44  
 Mallett, Alexandra ..... 36  
 Mansourian, Stephanie ..... 56  
 Maser, Chris ..... 30  
 Masterson, Robert E. .... 61  
 Mathur, Ajay ..... 60  
 Mauerhofer, Volker ..... 30  
 Maxton-Lee, Bernice ..... 56  
 McLeman, Robert ..... 49  
 Mehta, Lyla ..... 72  
 Menga, Filippo ..... 73  
 Meuleman, Louis ..... 65  
 Mickethwaite, Paul ..... 42
- Milstein, Tema ..... 48  
 Mishra, Snehasish ..... 13  
 Mohaghegh, Shahab ..... 21  
 Mohamed, Najma ..... 66  
 Moreda, Tsegaye ..... 39  
 Morin, Jean-Frederic ..... 64  
 Morse, Stephen ..... 11  
 Mukhopadhyay, Achintya ..... 60  
 Musikanski, Laura ..... 45
- N**
- Nagothu, Udaya Sekhar ..... 51  
 Nair, K.R.M. .... 24  
 Nanaki, Evanthia A. .... 15  
 Naser, Mostafa M ..... 10  
 Natarajan, Nithya ..... 5  
 Neale, Kiron C. .... 16  
 Nelson, Anita ..... 45  
 Nelson, Eric S. .... 43  
 Nelson, Vaughn ..... 60  
 Nemet, Gregory F. .... 60  
 Newman, Michael C. .... 23  
 Nielsen, Søren Nors ..... 34  
 Nocht, Timea ..... 17  
 Nunan, Fiona ..... 45
- O**
- O'Donnell, Erin ..... 29  
 Okonkwo, Eloamaka Carol ..... 28  
 Olmos Giupponi, Belen ..... 29  
 Olsson, E. Gunilla Almered ..... 40  
 Oomen, Jeroen ..... 46  
 Orr, Christopher J. .... 46  
 Orsini, Amandine ..... 36  
 Ovalles, Cesar ..... 19
- P**
- Parr, Ben L. .... 4  
 Partain, Roy ..... 27  
 Pasqualino, Roberto ..... 36  
 Patel, Mukund R. .... 3  
 Penna, Anthony N. .... 12  
 Penning-Rowell, Edmund C. .... 8  
 Penttinen, Sirja-Leena ..... 15  
 Perlmutter, Viktor M. .... 59  
 Perkins, Patricia E. .... 9  
 Poberezhskaya, Marianna ..... 5  
 Popa, Valentin ..... 3  
 Prakash, Om ..... 62  
 Pritwani, Kamlesh ..... 26  
 Purkait, Mihir Kumar ..... 26
- R**
- Ramanathan, Anand ..... 12  
 Ramjeawon, Toolseeram ..... 24  
 Rankin, Aidan ..... 40  
 Rathoure, Ashok ..... 73  
 Ray, Chittaranjan ..... 72  
 Reid, Donald G. .... 39  
 Reinders, Angèle ..... 59  
 Resurrección, Bernadette ..... 47  
 Rhodes II, Mark Alan ..... 45  
 Rimmel, Gunnar ..... 64  
 Rincón-Mejía, Eduardo ..... 26  
 Rinkinen, Jenny ..... 15  
 Robbins, David ..... 6  
 Roberts, Liz ..... 73  
 Robertson, Margaret ..... 66  
 Robinson, Daniel F. .... 57  
 Rogers, Daniel ..... 28  
 Rohloff, Amanda ..... 6  
 Romano, Onofrio ..... 53  
 Roorda, Niko ..... 64  
 Roosa, Stephen A. .... 16  
 Roothaan, Angela ..... 46  
 Rudge, Peter ..... 42  
 Ruiz Muller, Manuel ..... 29  
 Ryzhkov, Sergei V. .... 12
- S**
- Sachsman, David B. .... 49  
 Sadiku, Matthew N. O. .... 2

- Sandbrook, Chris ..... 56  
 Sapalidis, Andreas ..... 2  
 Sayers, Nicola ..... 53  
 Scavenuis, Theresa ..... 9  
 Scherer, Nikolas ..... 8  
 Schifani, Allison M. .... 54  
 Schiffer, Anne ..... 18  
 Schröder, Patrick ..... 51  
 Selim, Samiya A. .... 67  
 Sellers, Kathleen ..... 69  
 Shah, Yatish T. .... 16  
 Shah, Yatish T. .... 17  
 Shah, Yatish T. .... 24  
 Shah, Yatish T. .... 60  
 Shand, Rory ..... 52  
 Sharma, Atul ..... 61  
 Shertukde, Hemchandra Madhusudan ..... 25  
 Shrubsole, Dan ..... 69  
 Sikdar, Subhas K. .... 2  
 Singh, Chhatrapal ..... 24  
 Singh, Rajeev ..... 68  
 Singh-Ladhar, Jagdeepkaur ..... 31  
 Sklair, Leslie ..... 51  
 Slovic, Scott ..... 48  
 Smardon, Richard ..... 70  
 Sokolova, Olga ..... 23  
 Sokolowski, Maciej M. .... 15  
 Somerville, Keith ..... 45  
 Somerville, Margaret ..... 48  
 Sommariva, Corrado ..... 66  
 Sonnemann, Guido ..... 23  
 Sovacool, Benjamin K. .... 37  
 Soytaş, Uğur ..... 49  
 Speight, James G. .... 23  
 Spellman, Frank R. .... 32  
 Spellman, Frank R. .... 69  
 Spellman, Frank R. .... 71  
 Spinney, Justin ..... 54  
 Stagner, Jacqueline A. .... 60  
 Steele, Wendy ..... 48  
 Stewart, Pamela J. .... 66  
 Stissing Jensen, Jens ..... 67  
 Streimikiene, Dalia ..... 67  
 Sultana, Farhana ..... 38  
 Swain, Ashok ..... 49  
 Swilling, Mark ..... 51  
 Szolucha, Anna ..... 15  
 Szubel, Mateusz ..... 13
- T**
- Takahashi, Bruno ..... 43  
 Tavares da Silva, Suzana ..... 14  
 Thampapillai, Dodo ..... 43  
 Theodore, Louis ..... 73  
 Thorpe, David ..... 47  
 Thune, Taran ..... 18  
 Tignino, Mara ..... 46  
 Tiquia-Arashiro, Sonia M. .... 61  
 Tokar, Brian ..... 7  
 Toke, David ..... 17  
 Tomar, Pradeep ..... 2  
 Tornaghi, Chiara ..... 54  
 Torriti, Jacopo ..... 35  
 Tortajada, Cecilia ..... 37
- U**
- Uitto, Juha I. .... 44  
 Unger, Charlotte ..... 8  
 Unnikrishnan, G. .... 18  
 Unuigbo, Ngozi Finette ..... 53  
 Urban, Frauke ..... 14
- V**
- Valsaraj, Kalliat T. .... 25  
 Van Poeck, Katrien ..... 67  
 Vandergeest, Peter ..... 39  
 Vintzenko, Igor ..... 16  
 Vintzenko, Igor ..... 19  
 Vivero-Pol, Jose Luis ..... 30  
 Vogelhaar, Alison E. .... 52
- W**
- Wang, Jingxin ..... 23
- Wang, Yeqiao ..... 68  
 Wang, Yeqiao ..... 69  
 Wang, Yeqiao ..... 73  
 Washington, Haydn ..... 55  
 Weng, Qihao ..... 26  
 Westengen, Ola Tveitereid ..... 29  
 Westra, Laura ..... 28  
 Wewerinke-Singh, Margaretha ..... 28  
 White, Sean ..... 62  
 Wilhite, Donald ..... 68  
 Williams, Jo ..... 42  
 Williston, Byron ..... 9  
 Wilson, Denise ..... 63  
 Woellner, Robert A. .... 29  
 Woolley, Jonathan ..... 43  
 Wright, Laura ..... 53  
 Wurzel, Rüdiger ..... 40
- Y**
- Yates, Katherine L. .... 17  
 Yong, Raymond N. .... 24
- Z**
- Zacharias, Mark ..... 36  
 Zaman, Atiq ..... 55  
 Zhang, Lei ..... 22  
 Zhang, Ning ..... 12  
 Zhu, Fang ..... 25  
 Zito, Anthony R. .... 41  
 Üşenmez, Emre ..... 18  
 Inal, Onur ..... 54



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