

Advancements in Climate and Smart Environment Technology



v měkké vazbě, 292 stran
vyd. IGI Global, V/2024
ISBN 9798369348734

katalog.cena 6.250 Kč
v této nabídce **4.700 Kč**

The world faces escalating environmental and healthcare challenges, from climate change to managing natural resources and providing efficient medical services. These issues are complex, often requiring intricate modeling and intervention from domain experts. Traditional analytical methods need help to cope with the complexity and scale of these challenges, leading to inefficiencies and suboptimal outcomes.

There is a pressing need for innovative solutions that can enhance our ability to address these issues effectively. Advancements in Climate and Smart Environment Technology present a compelling solution to these pressing problems. By leveraging the power of artificial intelligence (AI) techniques, we offer a path toward more efficient and effective solutions in environmental engineering, healthcare management, and natural resource conservation.

Air Quality and Human Health



v pevné vazbě, 212 stran
vyd. Springer, V/2024
ISBN 9789819713622

katalog. cena 3.440 Kč
v této nabídce **2.400 Kč**

The book is one of the outcomes of the SPARC (Scheme for Promotion of Academic and Research Collaboration) project titled "Fine particulates matters in the air environment and their cancer risks in human beings," sponsored by MHRD (now MoE), Govt. of India. The editors of the book are PIs and Co-PIs of the said project.

The text deliberates on air pollution's health risks with contributions from well-known experts from diverse research fields (environmental science, toxicology, geology, public health science, biology, physics, chemistry, and geospatial technology). It explores its control and mitigation strategies. The book provides an up-to-date overview of the modern methods and tools used in air quality monitoring and human health risk assessment.

Case studies from different global settings offer invaluable insights into air pollution-related regional health issues. It addresses all aspects of air quality, covering indoor-outdoor air pollution, gaseous and particulate pollutants; characterization of source and pathways of air pollutants; and the modeling and assessing of health risks (respiratory, epidemiological, and toxicological) with regional and global perspectives. It also addresses air quality management issues.

Bioeconomy for Sustainability



v pevné vazbě, 408 stran
vyd. Springer, VI/2024
ISBN 9789819718368

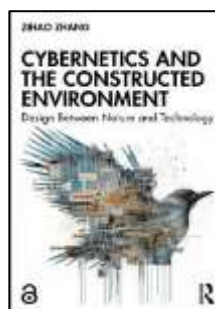
katalog.cena 5.650 Kč
v této nabídce **3.900 Kč**

This edited volume covers the key role of bioeconomy for next-generation industrial production to achieve Sustainable Development Goals. It addresses the key environmental challenges due to biowaste generation and their application in boosting the economy through the conversion of biowaste into valuable products for sustainable growth and future needs. This book also describes the potential future research scope and possibilities in bioeconomy towards sustainable industrial ecology and circular economy. In recent years, competition has increased for determinate resources.

There is an urgent need to look for sustainable, non-polluting alternate sources to meet the demands of an ever-increasing population. Sustainable processes and production while using biological material can produce food, fodder, agricultural inputs, fuel etc. with lesser inputs and reduced emission of pollutants.

Agricultural waste and food waste are another concern which demands immediate interventions. The Bioeconomy can be a possible way to address these challenges. It includes sustainable production of food, fodder, fiber, fuel, agricultural inputs, and other goods while using renewable resources or different types of waste.

Cybernetics and Constructed Environment: Design Between Nature and Technology



v měkké vazbě, 268 stran
vyd. Taylor & Francis Ltd, VII/2024
ISBN 9781032341750

katalog.cena 1.040 Kč
v této nabídce **720 Kč**

Grounded in contemporary landscape architecture theory and practice, Cybernetics and the Constructed Environment blends examples from art, design, and engineering with concepts from cybernetics and posthumanism, offering a transdisciplinary examination of the ramifications of cybernetics on the constructed environment. Cybernetics, or the study of communication and control in animals and machines, has grown increasingly relevant nearly 80 years after its inception. Cyber-physical systems, sensing networks, and spatial computing—algorithms and intelligent machines—create endless feedback loops with human and non-human actors, co-producing a cybernetic environment.

Empires of Sustainability: People and Planet after Globalisation



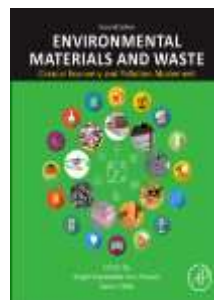
v měkké vazbě, 176 stran
vyd. Taylor & Francis Ltd, VI/2024
ISBN 9781032478470

katalog.cena 1.070 Kč
v této nabídce **750 Kč**

Focussing on the greening of imperialisms and empires, Empires of Sustainability analyses the shift around the world from denial of the environmental crisis to action to prevent catastrophe, and the resulting implications. Evidence of this shift is clear in widespread and purposeful social change which is gathering momentum. The book explains how globalisation accelerated us towards the crisis, and today, even as its own legitimacy is being questioned, is evolving through solutions and responses to it. Looking ahead and as the environmental crisis worsens, two possible futures are discerned and explored. One is that through universal actions to save the planet, shaped by interweaving political and economic forces, the hegemony of globalisation is restored, albeit in a green form. The other is that the world reorganises into competing spheres of influence, with politics, economics and the environment interwoven differently in each case..

In these ways, we face the prospect of one or more Empires of Sustainability emerging over the decades ahead, unless we build a better alternative society. The author presents an alternative: a more diverse World of Caring Places. This accessible book will appeal to students and scholars of international political economy, sustainability and environmental studies, and analysts, policy makers, campaigners and others concerned about the future of relations between people and planet.

Environmental Materials and Waste: Circular Economy and Pollution Abatement



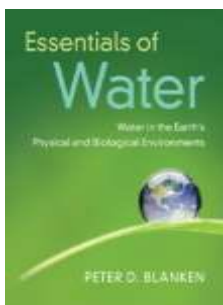
v měkké vazbě, 800 stran
vyd. Elsevier, VII/2024
ISBN 9780443220692

katalog.cena 3.620 Kč
v této nabídce **2.520 Kč**

Environmental Materials and Waste: Circular Economy and Pollution Abatement, Second Edition contains the latest information on environmental sustainability as a wide variety of natural resources are increasingly being exploited. The book takes a multidisciplinary approach to fully realize the number of by-products which can be remanufactured, providing the foundation needed across disciplines to tackle this issue. This updated edition includes operational principles of circular economy for sustainable development with reference to environmental waste.

Although circular systems are now being implemented, it also emphasizes the importance to properly consider and convert circular economy goals and principles into actions. Circular economy research is discussed in-depth as it has gained considerable momentum in the scientific literature thus far, and both conceptual debates and the creation of useful implementation strategies are still in their infancy. As a whole, this book covers a wide range of issues that must be covered in order to improve environmental sustainability..

Essentials of Water: Water in Earth's Physical and Biological Environments



v měkké vazbě, 342 stran
vyd. Cambridge University Press,
VI/2024
ISBN 9781108984379

katalog.cena 1.160 Kč
v této nabídce **800 Kč**

Water shapes the planet and all life upon it. Breaking down traditional disciplinary barriers, this accessible, holistic introduction to the role and importance of water in Earth's physical and biological environments assumes no prior knowledge. It provides the reader with a clear and coherent explanation of the unique properties of water and how these allow it to affect landscapes and underpin all life on Earth.

Contemporary issues surrounding water quality – such as the rise of microplastics and climate change – are highlighted, ensuring readers understand current debates. Giving all of the necessary background and up-to-date references, and including numerous examples and illustrations to explain concepts, worked mathematical calculations, and extensive end-of-chapter questions, this is the ideal introductory textbook for students seeking to understand the inextricable links between water and the environment.

Ethics and Environment: Introduction



v měkké vazbě, 240 stran
vyd. Cambridge University Press,
VII/2024
ISBN 9781108994392

katalog.cena 870 Kč
v této nabídce **600 Kč**

This new edition of a widely used and cited introduction to ethics and the environment offers a broad and lively discussion of nature's future, focusing on climate change, conservation, and justice for both our contemporaries and future generations. It discusses the nature of environmental problems and their relationship to economics, religion, technology, and aesthetics. It includes incisive discussions of our moral relations with other animals, and of how animals are used in our food systems. It also provides a deep discussion of the value of nature, which takes up ecofeminist and deep ecology views as well as sentientism and biocentrism. It discusses the plurality of values, and applies this analysis to some conflicts from the author's home state of California.

The volume is comprehensively revised and updated, with several new chapters, and concludes with a compelling discussion of the question "How should I live?" in this new epoch of the Anthropocene.

From Local to Global: Eco-Entrepreneurship and Global Engagement with Environment



v pevné vazbě, 192 stran
vyd. Emerald Publishing Limited,
VI/2024
ISBN 9781835492772

katalog.cena 2.320 Kč
v této nabídce **1.600 Kč**

Eco-entrepreneurship is a pervasive market-based approach to environmental recovery and sustainability. The aptitudes, motivations, strategies, and overall impact of eco-entrepreneurs are well documented in relevant academic literatures. From Local to Global, Volume 30 of the Advances in the Study of Entrepreneurship, Innovation and Economic Growth series contributes to this body of work an interdisciplinary, cross-sector portrait of the various inputs and capital resources (financial, human, social), models and strategies, and current and anticipated impacts that characterize and shape eco-entrepreneurship.

Human Behavioral Ecology



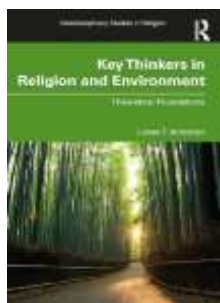
v měkké vazbě, 534 stran
vyd. Cambridge University Press, III/2024
ISBN 9781108434348

katalog.cena 1.450 Kč
v této nabídce **1.000 Kč**

Human behavioral ecology (HBE) applies the principles of evolutionary theory and optimisation to the study of human behavioural and cultural diversity. Among other things, HBE attempts to explain variation in behaviour as adaptive solutions to the competing life-history demands of growth, development, reproduction, parental care, and mate acquisition. This book is a comprehensive introduction to the theoretical orientation and specific findings of HBE.

It consolidates the insights of evolution and human behaviour into a single volume that reflects the current state and future of the field. It brings together leading scholars from across the evolutionary social sciences to provide a comprehensive and thought-provoking review of the state of the topic. Throughout, the authors explain the latest developments in theory and highlight critical debates in the literature, while also engaging readers with ethnographic insights and field-based studies that remain at the core of human behavioral ecology.

Key Thinkers in Religion and Environment



v měkké vazbě, 204 stran
vyd. Taylor & Francis Ltd, VII/2024
ISBN 9781032428987

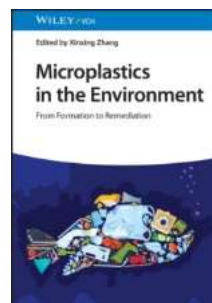
katalog.cena 1.070 Kč
v této nabídce **750 Kč**

Key Thinkers in Religion and Environment provides a theoretical foundation for scholarship related to the intersection of religions, natures and cultures across disciplines. The text introduces students to the major names, theoretical issues, and methodological orientations of the field while giving professors maximum freedom to insert case studies and examples as they wish. Students will come away with an understanding of the most important scholars, their theoretical contributions, and the scholarly conundrums with which they wrestled.

The book includes figures who are foundational to the field of religious studies more broadly, foregrounding key themes in their works which highlight the "nature" in/of their argumentation, whilst also highlighting the voices of women and people of color. The thinkers come from a range of fields, including religious studies, philosophy, anthropology, sociology, American Indian studies, ethology, agroecology, theology, and environmental history, demonstrating the importance and impact of interdisciplinary research. The book also offers a theoretical orientation which illuminates methodological and theoretical deficits in religious studies more generally, whilst opening new avenues for thinking about environmental ethics.

It is a must-read for all students and researchers of religion and the environment.

Microplastics in Environment: From Formation to Remediation

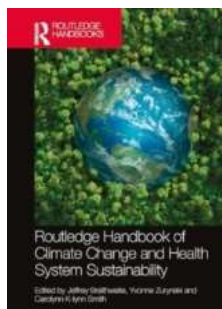


v pevné vazbě, 416 stran
vyd. Wiley, VII/2024
ISBN 9783527352111

katalog.cena 3.620 Kč
v této nabídce **2.700 Kč**

Authoritative reference addressing the characteristics, technologies, and solutions surrounding the most concerning environmental pollutant Microplastics in the Environment delivers a systematic and in-depth overview of microplastics generation mechanisms, risk prevention, and control solutions. Written by a highly qualified academic with significant research experience in microplastic pollution treatment, green polymer material functionalization, and recycling of solid waste, Microplastics in the Environment explores sample topics including: Characteristics of microplastics, such as their large specific surface area and small size, resulting in the formation of composite contamination New microplastics blocking approaches and technologies, and the mechanism of microplastics generation under the coupling effect of multiple environmental factors Transport and migration of microplastics, as well as their ecotoxicity to organisms in various environments, especially the complex estuarine environment The current state of plastic production, with insight on how society can find solutions to the expanding plastics industry Microplastics in the Environment is an essential reference on the subject for polymer chemists, materials scientists, environmental chemists, plastics technologists, and ecotoxicologists, as well as all professionals in the plastics industry, especially those focused on sustainability.

Routledge Handbook of Climate Change and Health System Sustainability



v pevné vazbě, 446 stran
vyd. Taylor & Francis Ltd, V/2024
ISBN 9781032410654

katalog.cena 6.230 Kč
v této nabídce **4.320 Kč**

The Routledge Handbook on Climate Change and Health System Sustainability takes the reader on a journey to understand the interconnectedness of human health, climate change, and healthcare systems. The book begins by exploring how climate change is affecting human health through the increasing frequency of natural disasters, such as bush fires, droughts and heatwaves, and the emergence of new infectious diseases, such as the SARS-CoV2 virus, all of which drive up demand for health services that are already heavily burdened by increasing rates of chronic diseases and ageing populations. Chapters then turn to the contribution of the healthcare system itself to climate change—explaining how current clinical practices, including wasteful care of low value, create an unsustainable carbon footprint and threaten the very viability of healthcare systems.

Throughout the volume, descriptions of practical solutions and implemented case studies are used to illustrate the feasibility of taking action in the real world of the healthcare delivery ecosystem. Bringing together a mix of forward-thinking environmental and health researchers, policymakers, leaders, managers, clinicians, patients, and health industry leaders to clarify the current state and future of sustainable healthcare systems, this book will be of interest to researchers and policymakers of climate and health systems..

Treatment and Utilization of Combustion and Incineration Residues



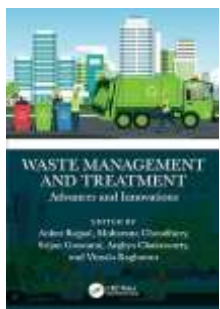
v měkké vazbě, 606 stran
vyd. Elsevier, V/2024
ISBN 9780443215360

katalog.cena 3.330 Kč
v této nabídce **2.300 Kč**

Treatment and Utilization of Combustion and Incineration Residues introduces state-of-art strategies for combustion and incineration solid residue management and utilization. The book also reviews current technologies for pollutant removal and control of combustion and incineration residues. Recycling ashes and slags in sustainable construction materials are also evaluated on environmental impacts and engineering values, and the use of different ashes and slags in cement clinker production is classified based on the sources and properties of the residues.

In addition, the recovery of valuable metals and inorganic elements is also discussed. Finally, the book examines the latest understanding of reaction mechanisms of various treatment technologies, the future design of treatment technologies, and the actualization of sustainable management for combustion/incineration residues.

Waste Management and Treatment: Advances and Innovations



v pevné vazbě, 312 stran
vyd. Taylor & Francis Ltd, VII/2024
ISBN 9781032192567

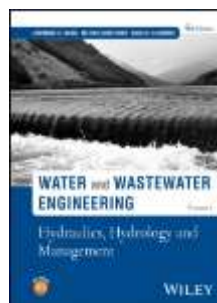
katalog.cena 3.050 Kč
v této nabídce **2.100 Kč**

This book covers environmental and economic waste treatment with resource recovery strategies covering mining, urban, agricultural, industrial, and sewage wastes. It includes waste management, life-cycle assessment, recycling, and recovering valuable materials from blast furnace slags, iron ore, coal, and bauxite mining. Wastewater recycling, reuse, treatment methods, and economic gain through nanotechnology are covered, along with biochemical study cycles in mining waste and tailing, landfill stabilization, energy, and nutrient recovery from household, urban, and hazardous waste.

Features: Includes details on the generation and composition of hazardous wastes. Focuses on practices in waste management followed in developing countries. Illustrates the concept of energy and resource recovery.

Explains ethical, innovative management strategies dealing with solid, biomedical, and chemical wastes. Discusses sustainable nanotechnology and engineered materials for treatment of biological and chemical pollutants in wastewater. This book is aimed at researchers and graduate students in environmental engineering and management.

Water and Wastewater Engineering Volume 1: Hydraulics, Hydrology and Management



v pevné vazbě, 816 stran
vyd. John Wiley & Sons Inc, V/2024
ISBN 9781394179107

katalog.cena 2.960 Kč
v této nabídce **2.050 Kč**

WATER and WASTEWATER ENGINEERING The classic guide to water and wastewater engineering returns Water and wastewater engineering is a crucial branch of civil engineering, dealing with water resources and with the challenges posed by water and wastewater. Generations of engineers have developed techniques for purifying, desalinating, and transforming water and wastewater, techniques which have only grown more critical as climate change and global population growth create new challenges and opportunities. There has never been a more urgent need for a comprehensive guide to the management of water and its various engineering subdisciplines.

Water and Wastewater Engineering: Hydraulics, Hydrology and Management, 4th edition offers key fundamentals in a practical context to engineers and engineering students. Updated to address growing urbanization and industrialization, with corresponding stress on water and wastewater systems, this vital textbook has been fully revised to reflect the latest research and case studies. This volume focuses primarily with hydrology and hydraulics, along with chapters treating groundwater and surface water sources.