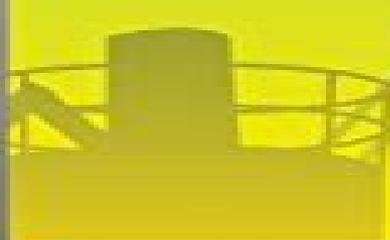


Assessing and Measuring Environmental Impact and Sustainability



Edited by
Jiří Jaromír Klemeš



Assessing And Measuring Environmental Impact And Sustainability

Umberto Desideri, Francesco Asdrubali

Assessing And Measuring Environmental Impact And Sustainability:

Assessing and Measuring Environmental Impact and Sustainability Jiří Jaromír Klemeš, 2015-01-20 Assessing and Measuring Environmental Impact and Sustainability answers the question what are the available methodologies to assess the environmental sustainability of a product system or process Multiple well known authors share their expertise in order to give a broad perspective of this issue from a chemical and environmental engineering perspective This mathematical quantitative book includes many case studies to assist with the practical application of environmental and sustainability methods Readers learn how to efficiently assess and use these methods This book summarizes all relevant environmental methodologies to assess the sustainability of a product and tools in order to develop more green products or processes With life cycle assessment as its main methodology this book speaks to engineers interested in environmental impact and sustainability Helps engineers to assess evaluate and measure sustainability in industry Provides workable approaches to environmental and sustainability assessment Readers learn tools to assess the sustainability of a process or product and to design it in an environmentally friendly way

Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication Anuradha Tomar, Hasmat Malik, Pramod Kumar, Atif Iqbal, 2022-09-17 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2021 held in Krishna Engineering College Ghaziabad India during 10 11 December 2021 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications

Proceedings of the 8th International Congress on Environmental Geotechnics Volume 3 Liangtong Zhan, Yunmin Chen, Abdelmalek

Bouazza, 2018-10-10 This book gathers selected papers presented at the 8th International Congress on Environmental Geotechnics ICEG held on October 28 November 1 2018 in Hangzhou China The theme of the congress is Towards a Sustainable Geoenvironment which means meeting the needs of the present generation without compromising the ability of future generations to meet their own needs Under this theme the congress covers a broad range of topics and provides an excellent opportunity for academics engineers scientists government officials regulators and planners to present discuss and exchange notes on the latest advances and developments in the research and application of environmental geotechnics

Examining the Environmental Impacts of Materials and Buildings Brownell, Blaine Erickson, 2020-02-28 Fundamental environmental challenges such as climate change resource depletion and pollution are still widely relevant in today s world Many of these problems have been associated with the architecture engineering and construction industries due to the level of resources used in these professions In recent years many manufacturers in these fields have expressed the motivation to make necessary changes that would be beneficial to the environment Despite this progress there remains a lack of research and assessment on the methods to achieve environmental stability within these architectural fields Examining the

Environmental Impacts of Materials and Buildings provides emerging research exploring the theoretical and practical aspects of ecological performance within modern building design and materials based construction Featuring coverage on a broad range of topics such as life cycle assessment material flows analysis and sustainability this book is ideally designed for architects civil engineers construction professionals environmentalists ecologists business practitioners scientists policymakers designers researchers and academicians seeking research on current trends in environmental performance within building design

The Routledge Handbook of Accounting for the Sustainable Development Goals Andrea Venturelli, Chiara Mio, 2024-11-05 The introduction of Agenda 2030 and its 17 Sustainable Development Goals SDGs has traced a path for private and public entities interested in pursuing sustainable development This handbook identifies the recent challenges in accounting research and the SDGs by exploring the evolutionary pathways and future direction of sustainability reporting It explores the role of businesses as contributors to Agenda 2030 by assuming a multidisciplinary approach and provides a measure of organisations contributions to the SDGs through the understanding of business strategies and policies on Agenda 2030 integration The book represents a substantial and multi faceted contribution to the debate on SDGs accounting by assembling international scholars and practitioners to effectively explore the practice and theory revolving around the current state of the art and highlight future research pathways By providing a comprehensive evaluation of accounting for the Sustainable Development Goals this volume will appeal to a wide variety of readers from students scholars researchers practitioners and policymakers interested in increasing their awareness of Agenda 2030 and offers a significant contribution to the evolution of accounting practices

Intelligent Infrastructure and Smart Materials Shray Pathak, Anoop Kumar Shukla, Shreya Sharma, Vijay P. Singh, 2025-08-16 This book delves into the intersection of advanced technologies sustainable development and the crucial role of infrastructure in shaping a more environmentally friendly world In the contemporary era as societies grapple with the challenges of climate change resource depletion and urbanization the concept of intelligent infrastructure becomes paramount The book explores how integrating cutting edge technologies such as artificial intelligence Internet of Things IoT and smart materials into our built environment can contribute to the creation of more efficient resilient and sustainable infrastructure systems The significance of this book lies in its comprehensive exploration of the potential of intelligent infrastructure and smart materials to address pressing environmental issues It sheds light on how these technologies can optimize energy consumption reduce waste and enhance the overall efficiency of infrastructure networks Moreover the book emphasizes the importance of sustainability in the context of infrastructure development urging a shift towards eco friendly practices By showcasing real world examples and case studies the book provides practical insights into the implementation of intelligent infrastructure solutions making it a valuable resource for researchers engineers policymakers and anyone interested in the intersection of technology and sustainability

Environmental Water Footprints Subramanian Senthilkannan Muthu, 2018-08-29 This book discusses the

concept of water footprint and corporate water footprint presenting case studies on a thermal power plant in India and on the food sector Water conservation is a key element of industrial sustainability strategies *Encyclopedia of Sustainable Technologies* Martin Abraham,2017-07-04 *Encyclopedia of Sustainable Technologies* Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Handbook of Energy Efficiency in Buildings Umberto Desideri,Francesco Asdrubali,2018-11-12 *Handbook of Energy Efficiency in Buildings* A Life Cycle Approach offers a comprehensive and in depth coverage of the subject with a further focus on the Life Cycle The editors renowned academics invited a diverse group of researchers to develop original chapters for the book and managed to well integrate all contributions in a consistent volume Sections cover the role of the building sector on energy consumption and greenhouse gas emissions international technical standards laws and regulations building energy efficiency and zero energy consumption buildings the life cycle assessment of buildings from construction to decommissioning and other timely topics The multidisciplinary approach to the subject makes it valuable for researchers and industry based Civil Construction and Architectural Engineers Researchers in related fields as built environment energy and sustainability at an urban scale will also benefit from the books integrated perspective Presents a complete and thorough coverage of energy efficiency in buildings Provides an integrated approach to all the different elements that impact energy efficiency Contains coverage of worldwide regulation

[Fundamentals of Sustainable Aviation](#) Eva Maleviti,2023-11-10 *Fundamentals of Sustainable Aviation* is the first textbook to survey the critical field of sustainability within the aviation industry Taking a systems thinking approach it presents the foundational principles of sustainability and methodically applies them to different aviation sectors Opening with the basics of sustainability emphasising the Sustainable Development Goals the book then considers the environmental economic and social dimensions of aviation The following chapters apply these insights to aviation design

supply chains operations maintenance and facilities The final chapter examines the concept of resilience in sustainable aviation Overall the textbook shows how future sustainability can be achieved by making better decisions today Students are supported with international case studies throughout the book Slides test questions and a teaching manual are available for instructors This textbook is the ideal resource for courses on sustainable aviation globally and will also be of great interest to professionals in the field

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