
Sustainable Waste Management Systems

Sustainable Industrial Design and Waste Management
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Sustainable Solid Waste Collection and Management
Sustainable Waste Management: Policies and Case Studies
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Waste Water Recycling and Management
IoT-Based Smart Waste Management for Environmental Sustainability
A Model for Sustainable Solid Waste Management Through an Analysis of Chicago, Illinois Solid Waste Management Systems
Sustainable Food Waste-to-Energy Systems
Challenges for Sustainable Solid Waste Management
Solid Waste Management in the World's Cities
Innovative Waste Management Technologies for Sustainable Development
Sustainable Solid Waste Management
Sustainable Waste Management
Waste management planning and optimisation
The Garbage Crisis
Solid Waste Policies and Strategies: Issues, Challenges and Case Studies

Sustainable Technologies and Drivers for Managing Plastic Solid Waste in Developing Economies

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Sustainable Industrial Design and Waste Management Springer Sustainable Industrial Design and Waste Management was inspired by the need to have a text that enveloped awareness and solutions to the ongoing issues and concerns of waste generated from industry. The development of science and technology has increased human capacity to extract resources from nature and it is only recently that industries are being held accountable for the detrimental effects the waste they produce has on the environment. Increased governmental research, regulation and corporate accountability are digging up issues pertaining to pollution control and waste treatment and environmental protection. The traditional approach for clinical waste, agricultural waste, industrial waste, and municipal waste are depleting our natural resources. The main

objective of this book is to conserve the natural resources by approaching 100 % full utilization of all types of wastes by cradle - to - cradle concepts, using Industrial Ecology methodology documented with case studies. Sustainable development and environmental protection cannot be achieved without establishing the concept of industrial ecology. The main tools necessary for establishing Industrial Ecology and sustainable development will be covered in the book. The concept of "industrial ecology will help the industrial system to be managed and operated more or less like a natural ecosystem hence causing as less damage as possible to the surrounding environment. Numerous case studies allow the reader to adapt concepts according to personal interest/field Reveals innovative technologies for the conservation of natural resources The only book which provides an integrated approach for sustainable development including tools, methodology, and indicators for sustainable

development
Garbage Crisis IGI Global The book contains high-quality research papers presented at Sixth International Conference on Solid Waste Management held at Jadavpur University, Kolkata India during November 23-26, 2016. The Conference, IconSWM 2016, is organized by Centre for Quality Management System, Jadavpur University in association with premier institutes and societies of India. The researchers from more than 30 countries presented their work in Solid Waste Management. The book is divided into two volumes and deliberates on various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle analysis, climate change, research and business opportunities.
Sustainable Solid Waste Collection and Management Routledge The Waste Crisis Explore modern solutions to the

most critical issues in waste management policy and design. *The Waste Crisis: Roadmap for Sustainable Waste Management in Developing Countries*, an accomplished team of sustainability researchers deliver a concise insight of modern waste management practices that acts as a handbook for waste management professionals. Along with flow charts and example problems, the authors offer readers the information necessary to support decision making based on country, city size, population, waste generation volume, type, geographical location, and more. The book begins with an overview of current waste management practices, including waste generation, collection, processing, composting, recycling, and disposal. It moves on to a series of case studies from over ten countries and presentations of sustainable waste management strategies. *The Waste Crisis: Roadmap for Sustainable Waste Management in Developing Countries* concludes with a series of practical and effective final recommendations for future best practices. It

also includes: Practical discussions of material flow, cost-effective material recovery, anaerobic digestion, composting, recycling, disposal, training, and human capacity building. *Comprehensive explorations of unique and robust decision-making strategies for designers, policy makers, and regulators. In-depth treatments of ready-to-implement waste management systems perfect for systems designers. The Waste Crisis: Roadmap for Sustainable Waste Management in Developing Countries* is an indispensable resource for waste, recycling, and resource management professionals. It's also perfect for waste management system designers and decision makers seeking a one-stop guide to issues of sustainability in the developing world. *Sustainable Waste Management: Policies and Case Studies* MIT Press. The book gathers high-quality research papers presented at the Seventh International Conference on Solid Waste Management, held at Professor Jayashankar Telangana State Agricultural University,

Hyderabad on December 15–17, 2017. The Conference, IconSWM 2017, is an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific. As a pre-event of the Eighth Regional 3R Forum, it also aims to generate scientific inputs to the policy consultation of the Eighth Regional 3R Forum co-organized by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. Researchers from more than 30 countries presented their work on Solid Waste Management. The book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technologies, policy and strategies, energy recovery and resource circulation, life cycle analysis, climate change, research and business opportunities. [Sustainable Solid Waste Management](#) Academic Press. America's landfill space is quickly depleting as the population continues to experience rapid growth; as the population grows

the amount of daily waste generated increases at an alarming as well. In fact, by the year 2024, America would have exhausted all land areas dedicated to landfills. Currently, nationwide mandated regulations or standards to decrease the amount generated solid waste, construction waste, composting waste, or reducing waste at the source; do not exists. The following report researches effective practices that would make a waste management system sustainable. In order to rate the sustainability of the management system, a score sheet was created drawing from literature written. By creating a score sheet, individual waste management systems are able to determine if they are indeed sustainable and/or in need of improvement. The City of Chicago, Illinois, was chosen as the city to be measured and has proven to have a promising future as a prototype in effective sustainable waste management practices. *Waste Management as Economic Industry Towards Circular Economy* CRC Press
This book consolidates and summarizes smart

technologies like IoT, edge computing, and AI used in different aspects of waste material management, mitigation, and recycling for a sustainable environment. One of the cases explains how IoT-based systems and wireless sensors can be used to continuously detect common pollutants such as volatile organic compounds (VOCs), carbon monoxide, and particulate matter (PM) and how the data collected are used to assess the overall air quality and determine actions for improvements. A collection of practical case studies, this book provides a comprehensive knowledge in smart waste management to readers in universities, research centers, and industries. Utilization and Management of Bioresources Springer Nature
This book compiles many different treatment options and best practices for the treatment and recycling of municipal solid waste from all over the globe, factoring in cost-effectiveness, sanitation, and environmental degradation. Important to professors, researchers, students, policymakers, and municipal offices, this

informed book looks into innovative waste management systems from a number of developing countries, which may prove useful to developed countries of the world as well. This book is unique in that it focuses on state-of-the-art urban solid waste management and future trends. What a Waste 2.0 John Wiley & Sons
Sustainable Resource Recovery and Zero Waste Approaches covers waste reduction, biological, thermal and recycling methods of waste recovery, and their conversion into a variety of products. In addition, the social, economic and environmental aspects are also explored, making this a useful textbook for environmental courses and a reference book for both universities and companies. Provides a novel approach on how to achieve zero wastes in a society Shows the roadmap on achieving Sustainable Development Goals Considers critical aspects of municipal waste management Covers recent developments in waste biorefinery, thermal processes, anaerobic digestion, material recycling and landfill

mining

Urban Mining and Sustainable Waste Management

Springer

As global waste generation increases at a rapid rate, there is a dire need for waste management practices such as collection, disposal, and recycling to protect from environmental pollution. However, developing countries generate two to three times more waste, resort to open dumps more often than developed countries, and are slower to integrate waste management standards. There is a need for studies that examine the waste generation and practices of countries that share similar economic backgrounds as they strive to implement successful waste management techniques. *Sustainable Waste Management Challenges in Developing Countries* is an essential reference source that discusses the challenges and strategies of waste management practices and the unique waste issues faced by developing countries that prevent them from achieving the goal of integrated waste management. While highlighting topics including e-waste,

transboundary movement, and consumption patterns, this book is ideally designed for policymakers, legislators, waste company managers, environmentalists, students, academicians, and municipal planners seeking current research on the global waste management problem. *Sustainable Waste Management Systems and Their Application in Trinidad and Tobago* Nova Science Publishers
In our rapidly urbanizing global society, solid waste management will be a key challenge facing all the world's cities. *Solid Waste Management in the World's Cities* provides a fresh perspective and new data on one of the biggest issues in urban development. Using the framework of Integrated Sustainable Waste Management (ISWM), the report brings together unprecedented research from 22 cities across six continents. It uncovers the rich diversity of waste management systems that are in place throughout the world, and draws out the practical lessons for policymakers. The volume will be essential reading for all professionals and

policymakers in the field, as well as a valuable resource for researchers and students in all aspects of urban development. Winner of the International Solid Waste Association Publication Award 2010
Published with UN-Habitat.
Sustainable Solid Waste Management Sustainable Solid Waste Collection and Management
This book gathers high-quality research papers presented at the Seventh International Conference on Solid Waste Management, held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15-17, 2017. The Conference, IconSWM 2017, is as an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific. As a pre-event, it also aims to generate scientific inputs to the policy consultations at the Eighth Regional 3R Forum co-organised by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. At the IconSWM 2017, researchers from more than 30 countries presented their work on Solid Waste Management. Divided into three

volumes, this book shares their papers, which address various issues related to innovation and implementation in sustainable waste management, segregation, collection and transportation of waste, treatment technologies, policies and strategies, energy recovery, life cycle analysis, climate change, and research and business opportunities.

Industry as a Partner for Sustainable

Development Morgan & Claypool Publishers

This book presents the application of system analysis techniques with case studies to help readers learn how the techniques can be applied, how the problems are solved, and which sustainable management strategies can be reached.

Sustainable Waste Management Challenges in Developing Countries

Elsevier

This book will focus on "Waste Management," a serious global issue and engineers' responsibility towards finding better solutions for its sustainable management. Solid waste management is one of the major environmental burdens in

both developed and developing countries alike. An alarming rate of solid waste generation trends can be seen as a result of globalization, industrialization, and rapid economic development. However, low-income and marginalized sectors in society suffer most from the unfavorable conditions deriving from poor waste management. Solid waste management is not a mere technical challenge. The environmental impact, socio-economic, cultural, institutional, legal, and political aspects are fundamental in planning, designing, and maintaining a sustainable waste management system in any country. Engineers have a major role to play in designing proper systems that integrate stakeholders, waste system elements, and sustainability aspects of waste management. This book is part of a focused collection from a project on Engineering and Education for Social and Environmental Justice. It takes an explicitly social and environmental justice stance on waste and attempts to assess the social impact of waste management on those

who are also the most economically vulnerable and least powerful in the society. We hope that this book will assist our readers to think critically and understand the framework of socially and environmentally just waste management.

University Campus Solid Waste

Management Springer

The book contains high-quality research papers presented at Sixth International Conference on Solid Waste Management held at Jadavpur University, Kolkata India during November 23-26, 2016. The Conference, IconSWM 2016, is organized by Centre for Quality Management System, Jadavpur University in association with premier institutes and societies of India. The researchers from more than 30 countries presented their work in Solid Waste Management. The book is divided into two volumes and deliberates on various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle

analysis, climate change, research and business opportunities.

Zero-Waste Springer

An argument that social, political, and economic systems maintain power by discarding certain people, places, and things. Discard studies is an emerging field that looks at waste and wasting broadly construed. Rather than focusing on waste and trash as the primary objects of study, discard studies looks at wider systems of waste and wasting to explore how some materials, practices, regions, and people are valued or devalued, becoming dominant or disposable. In this book, Max Liboiron and Josh Lepawsky argue that social, political, and economic systems maintain power by discarding certain people, places, and things. They show how the theories and methods of discard studies can be applied in a variety of cases, many of which do not involve waste, trash, or pollution. Liboiron and Lepawsky consider the partiality of knowledge and offer a theory of scale, exploring the myth that most waste is municipal solid waste produced by consumers; discuss peripheries,

centers, and power, using content moderation as an example of how dominant systems find ways to discard; and use theories of difference to show that universalism, stereotypes, and inclusion all have politics of discard and even purification—as exemplified in “inclusive” efforts to broaden the Black Lives Matter movement. Finally, they develop a theory of change by considering “wasting well,” outlining techniques, methods, and propositions for a justice-oriented discard studies that keeps power in view.

Integrated biological systems for sustainable waste management

Springer Nature

This book analyses ‘zero-waste’ (ZW) 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 Australia, Bangladesh, Japan, New Zealand, Sweden, and the USA, this book explores why urban waste management systems still remain a major challenge for almost all cities around the world. Rejecting waste as an

‘end-of-life’ problem, Atiq Zaman and Tahmina Ahsan instead consider waste prevention through the ZW model, in which resources are utilized and consumed with minimum environmental degradation. In addition, the authors give extended discussion on why embracing the ZW concept will be beneficial for the circular economy (CE). Providing a strategic zero-waste framework and an evaluation tool to measure waste management performance aimed towards ZW goals, 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.

The Waste Crisis

Academic Press

Waste-to-Energy is one of the key technologies for sustainable waste management. The book by Laura Mastellone offers a comprehensive overview of the various processes for thermal waste treatment such as incineration, pyrolysis, and gasification. It is instrumental for understanding objectives, functioning, residues, and

environmental impacts of thermal processes. This is worthwhile reading for any expert in the field of resources and waste management.

Waste Valorisation and Recycling Springer

The book focuses on the challenges faced by urban areas in the context of handling waste in an environmentally and socially acceptable manner. It also discusses effective waste management approaches, which differ according to culture, climate, and socio-economic variables, as well as institutional volume. Presenting selected, high-quality papers from IconSWM 2018, the book explores a number of waste management methods with the help of case studies.

SUWAMAS Elsevier

This book discusses sustainable waste management technologies for managing end-of-life (EoL) post-consumer and packaging plastic solid waste (PSW) from domestic and commercial waste streams. It does so particularly in the context of providing a way forward for developing economies. Treating

recycling and composting of, and energy recovery from, plastics, the book is directed at individuals who are responsible for or have a significant role in solid waste management. Academics and students in solid waste management pursuing research or study in solid waste management with particular interest in plastics will find this book useful. Sustainable options for managing PSW are presented with reference to the scientific, engineering, and management standpoints to enable decision makers and relevant stakeholders in industry arrive at the best decision for achieving sustainable resource management. The book further integrates waste management and technologies so that PSW recycling can be viewed from environmental, economic, and social perspectives. Greener technologies for PSW management are addressed so as to provide drivers that will influence key stakeholders and policy-makers achieve sustainability in this field. **Sustainable Resource Recovery and Zero Waste Approaches**

ibidem-Verlag / ibidem Press

The book presents high-quality research papers from the Seventh International Conference on Solid Waste Management (IconSWM 2017), held at Professor Jayashankar Telangana State Agricultural University, Hyderabad on December 15–17, 2017. The conference, an official side event of the high-level Intergovernmental Eighth Regional 3R Forum in Asia and the Pacific, aimed to generate scientific inputs into the policy consultation of the Forum co-organized by the UNCRD/UNDESA, MoEFCC India, MOUD India and MOEJ, Japan. Presenting research on solid waste management from more than 30 countries, the book is divided into three volumes and addresses various issues related to innovation and implementation in sustainable waste management, segregation, collection, transportation of waste, treatment technology, policy and strategies, energy recovery, life cycle analysis, climate change, research and business opportunities.

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