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Microbial Degradation and Detoxification of Pollutants
Solid Waste Management in Indian Cities
Low Carbon City
Civic Affairs
Emerging Trends in Engineering, Science and Technology for Society, Energy and Environment

One Health
Sustainable Branding

*Solid Waste Management Cochin
Municipal Corporation Kerala*

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Anaerobes and Waste Conversion Technologies Springer
Science & Business Media

Impact of Climate Change on Social and Mental Well-Being, increases the awareness and understanding of how global climate change, including natural disasters, loss of habitat, and displacement can affect social and mental well-being. This book provides valuable insights into the connection between environmental issues and mental health, and the long-term implications of these issues. Sections dedicated to adaptation and solutions, offer coping mechanisms and strategies for eco-anxiety and climate grief. This book also explores the social, economic, and political factors that contribute to climate change and how these factors impact human well-being. - Reviews the social impacts of climate change including forced migration, and social equity. - Outlines the links between climate change and suicidal ideation - Identifies coping strategies for climate-related stressors
India Environmental Technologies Export Market Plan Routledge
Urban Health: A Global Perspective, Fifteenth Edition outlines the problems, issues, and solutions to health in urban areas on a global scale. The book focuses on several issues which impact the health of cities, such as the environment, pollution, climate change, ecology, social equity, health inequalities, and health problems. In addition, it covers several empirical studies which explain economic, political, and the social issues influencing health in urban areas. Pandemics and sustainable development will also be discussed. - Provides global case studies on the issues of urban health and air quality - Emphasizes the importance of health and sustainability from environmental pollution and climate change - Discusses principles from medical professionals and researchers on health in urban areas
[Community Empowerment, Sustainable Cities, and Transformative Economies](#) John Wiley & Sons
A sustainable brand should integrate environmental, social, economic and issues into its business operations. Sustainable

Branding considers how broader perspectives on sustainability and corporate social responsibility can be applied to the practicalities of brand management. By addressing a range of perspectives and their application to branding, the authors go beyond sustainable branding to question the role brands play in a wider sustainable society. Structured around three core parts - People, Planet and Prosperity - contributions from experts in the field consider the human dimensions of environmental change, identity and reputation, technology and innovation, waste management, public and brand engagement, environmental ecosystems and the circular economy. Combining theoretical insight and empirical research with practical application, each chapter includes real-life international cases and reflective questions to allow discussion, best-practice examples and actionable suggestions on how to implement sustainable branding activities. This book is perfect for academics, postgraduate and final-year undergraduate students in sustainable branding, sustainable business, corporate social responsibility, brand management and communications. It provides a comprehensive treatment of the nature of relationships between environmental, economic, social, companies, brands, and stakeholders in different areas and regions of the world.

TERI Energy Data Directory (TEDDY) 2009 Discovery
Publishing House

This book contains detailed and structured approaches to tackling practical decision-making troubles using economic consideration and analytical methods in Municipal solid waste (MSW) management. Among all other types of environmental burdens, MSW management is still a mammoth task, and the worst part is that a suitable technique to curb the situation in developing countries has still not emerged. *Municipal Solid Waste Management in Developing Countries* will help fill this information gap based on information provided by field professionals. This information will be helpful to improve and manage solid waste systems through the application of modern management techniques. It covers all the fundamental concepts of MSWM; the various component systems, such as collection, transportation, processing, and disposal; and their integration. This book also

discusses various component technologies available for the treatment, processing, and disposal of MSW. Written in view of actual scenarios in developing countries, it provides knowledge to develop solutions for prolonged problems in these nations. It is mainly for undergraduate and postgraduate students, research scholars, professionals, and policy makers.

Metropolitan Governance CRC Press

This edited book brings out a comprehensive collection of information on principle and policy of circular economy. It deals with the general principles, pathways of circular economic development in different countries, use of circular economy in achieving sustainable development goals. The book covers policy instruments that helps implementing resource efficient processes, strategies of implementing circular economy concepts, Decarbonisation, and developing business promoting circular economy principles. The circular economy has gained increasing prominence as a tool which presents solutions to some of the world's most pressing sustainable development challenges. By addressing root causes, the concept of a circular economy, an economy in which waste and pollution do not exist by design, products and materials are kept in use, and natural systems are regenerated provides promise to achieving SDGs. This book is of interest and use to practitioners, capacity builders and policymakers, entrepreneurs, NGOs, general people, and valuable source of reference to the relevant researchers and students in global markets. As circular economy is gaining momentum and interest in general, the book serves as reading material for undergraduate and graduate students in any field specifically environmental science, waste management, medical science as well as environmental management at national and international level.

Business models for fecal sludge management in India IGI
Global

The International Conference on Emerging Trends in Engineering, Science and Technology (ICETEST) was held at the Government Engineering College, Thrissur, Kerala, India, from 18th to 20th January 2018, with the theme, "Society, Energy and Environment", covering related topics in the areas of Civil

Engineering, Mechanical Engineering, Electrical Engineering, Chemical Engineering, Electronics & Communication Engineering, Computer Science and Architecture. Conflict between energy and environment has been of global significance in recent years. Academic research needs to support the industry and society through socially and environmentally sustainable outcomes. ICETEST 2018 was organized with this specific objective. The conference provided a platform for researchers from different domains, to discuss and disseminate their findings. Outstanding speakers, faculties, and scholars from different parts of the world presented their research outcomes in modern technologies using sustainable technologies.

Organic Waste Composting through Nexus Thinking I. K. International Pvt Ltd

Cost-Effective Technologies for Solid Waste and Wastewater Treatment synthesizes methods, case studies, and analyses of various state-of-the-art techniques for removing contaminants from wastewater, solid waste, or sewage and converting or reusing the waste with minimum impact on the environment. Focusing on innovative treatment strategies, as well as recent modifications to conventional processes, the book covers methods for a complex variety of emerging pollutants, including organic matter, chemicals, and micropollutants resulting from developmental and industrial activities. Serving as a practical guide to state-of-the-art methods, Cost-Effective Technologies for Solid Waste and Wastewater Treatment also delivers offers foundational information on the practical design of treatment and reuse systems and explains the treatments in terms of scale, efficiency, and effectiveness. It focuses on cost-effective technologies that are particularly applicable to environmental clean-up, such as bioaugmentation and biostimulation of plastics, activated carbon, phytoremediation, crude oil pollution stress, adsorbents, contaminants of emerging concern, anaerobic digestion, ISCO, biosorption, bioremediation, radioactive contaminants, constructed wetlands, nanoremediation, and rainwater. As such, it is a valuable and practical resource for researchers, students, and managers in the fields of environmental science and engineering, as well as wastewater management, chemical engineering, and biotechnology. - Presents low-cost treatment technologies for both solid waste and wastewater - Analyzes the efficiency and effectiveness of state-of-

the-art technologies - Includes methods and case studies for practical application

Productivity Taylor & Francis

These proceedings present a selection of papers presented at the 3rd International Conference on Materials Mechanics and Management 2017 (IMMM 2017), which was jointly organized by the Departments of Civil Engineering, Mechanical Engineering and Architecture of College of Engineering Trivandrum. Developments in the fields of materials, mechanics and management have paved the way for overall improvements in all aspects of human life. The quest for meeting the requirements of the rapidly increasing population has led to revolutionary construction and production technologies aiming at optimum management and use of natural resources. The objective of this conference was to bring together experts from academic institutions, industries, research organizations and professionals for sharing of knowledge, expertise and experience in the emerging trends related to Civil Engineering, Mechanical Engineering and Architecture. IMMM 2017 provided opportunities for young researchers to actively engage in research discussions, new research interests, research ethics and professional development.

Recent Advances in Materials, Mechanics and Management Springer Nature

Chapter I - Introduction, Chapter II - Solid Waste Management: An Overview, Chapter III - Conceptual and Theoretical Frameworks, Chapter IV - Environmental Analysis With Special Reference to Waste Management, Chapter V - Residential Waste Management in Town Panchayat: Micro Level Analysis, Chapter VI - Findings, Suggestions and Conclusion. Solid Waste Management is a worldwide phenomenon. Improper management of solid waste causes hazards to inhabitants and residents and affects the wealth and health of "Mother Earth". Global evidences show that, the death rate from improper management of solid waste results in 9 per 1000 of population. Financial constraints prevent the local governments, starting from metro-cities to village panchayat, from creating a proper waste collection and disposal mechanism. Therefore, waste generated by the local governments is inadequately and poorly managed in many countries of the world. Most cities, towns, small towns and villages, do not collect the totality of waste generated and of the waste collected, only a fraction receives proper disposal. Thus, waste management is

becoming a major health and environmental concern in urban, semi-urban and even rural areas of many developing countries. Waste management is given very low priorities in the developing countries whose budgetary provision is too small to manage the solid waste. Changing life styles and moving towards consumeristic society pose waste management challenges, as waste management systems in developing countries are incapable of frequent adjustment to match these life style changes. Waste (solid/liquid/gaseous) is a direct consequence of all human activities. Management of solid waste is a discipline associated with the principles of public health, economics, engineering, and conservation. Scientific management of waste involves seven important steps viz., segregation and storage of waste at source, primary collection, street sweeping, secondary storage, transportation, treatment and recycling and finally disposal of waste in a saleable manner. Rapid urbanization coupled with modernization has led to several fold increases in the generation of wastes, like household waste, commercial waste, industrial waste, construction waste, agriculture waste, sewage waste, wastes from mining and quarrying, bio-medical waste, radioactive waste and e-waste. Since, solid waste is a global phenomenon, the economies of the globe, particularly developing economies, are expressing anxiety on the adverse effects of increasing quantum of solid waste and taking initiatives to adopt Integrated Solid Waste Management System with a view to reducing the harmful characteristics of solid waste produced by different economic sectors. Generation of household waste is an unavoidable result of many activities of modern civilization. With these backgrounds, an attempt has been made by the author to study the solid waste management by the residents of Chinnalapatti Town Panchayat in Dindigul District, Tamil Nadu with the following objectives such as: to study the socio-economic conditions of the residents of Chinnalapatti Town Panchayat; to identify the factors that determine the generation of wastes by the residents of Chinnalapatti Town Panchayat; to estimate the quantity and types of wastes generated by the residents of Chinnalapatti Town Panchayat; and to suggest sustainable strategies and policies for effective management of wastes in Chinnalapatti Town Panchayat. The proposed study is basically empirical in nature and based on primary data, collected through household's survey, interview and discussion with the residents in

the study area. According to 2011 Census, Chinnalapatti Town Panchayat has 8024 residents who are living in 18 wards with four zones viz., East, West, South and North. Further, author has applied proportionate random sampling technique and finally chosen 501 samples of residents for the purpose of present research investigation.

Bioremediation of Environmental Pollutants Springer Nature

This new volume illustrates how one of the most rapidly evolving industries in the world—travel and tourism—has transcended its immediate economic concerns and has become a major signifier for cultural patterns and cross-cultural communications. It discusses how the function of language has become the subject of scrutiny in the context of intellectual deliberation vis-à-vis travel and tourism. Drawing on discourse analytics and ethnographic approaches, this volume brings together perspectives from the lived experiences of residents, hosts, and ethnographers to explore the extent to which linguistic and cultural differences are identified, constructed, negotiated, and maintained in tourism encounters.

Agriculture And Waste Management For Sustainable Future

Butterworth-Heinemann

This book collates the latest trends and technological advancements in bioremediation, especially for its monitoring and assessment. Divided into 18 chapters, the book summarizes basic concepts of waste management and bioremediation, describes advancements of the existing technologies, and highlights the role of modern instrumentation and analytical methods, for environmental clean-up and sustainability. The chapters cover topics such as the role of microbial fuel cells in waste management, microbial biosensors for real-time monitoring of bioremediation processes, genetically modified microorganisms for bioremediation, application of immobilized enzyme reactors, spectroscopic techniques, and in-silico approaches in bioremediation monitoring and assessment. The book will be advantageous not only to researchers and scholars interested in bioremediation and sustainability but also to professionals and policymakers.

Urban Health Springer Nature

Most research on globalization has focused on macroeconomic and economy-wide consequences. This book explores an under-researched area, the impacts of globalization on cities and

national urban hierarchies, especially but not solely in developing countries. Most of the globalization-urban research has concentrated on the "global cities" (e.g. New York, London, Paris, Tokyo) that influence what happens in the rest of the world. In contrast, this research looks at the cities at the receiving end of the forces of globalization. The general finding is that large cities, on balance, benefit from globalization, although in some cases at the expense of widening spatial inequities.

Prospects of Organic Waste Management and the Significance of Earthworms MJP Publisher

This book offers an extensive review of e-waste management in India, the world's third-largest producer of waste from electrical and electronic equipment. With a focus on the evolution of legal frameworks in India and the world, it presents impacts and outcomes; challenges and opportunities; and management strategies and practices to deal with e-waste. First of its kind, the book examines relevant concepts and issues from across 15 disciplines and six areas of policy making and will serve as a comprehensive knowledge base on electronic waste in India. It links key themes to the global context of Sustainable Development Goals and explores the convergence with technological, infrastructural, and social initiatives in e-waste management. A range of topics are discussed, such as resource efficiency policies; circular economy; toxicity; technicalities and complexities of e-waste management including role of the informal sector and need for recognising social and human costs in policy making. The book deals with the role of statistics; legal trends and reforms; linkages with green Agenda 2030 and UN initiatives; implementation of Extended Producer Responsibility (EPR); environmental factors; business prospects; consequences on human health; Life Cycle Impact Assessment; the 'six Rs' (Responsible use, Repair, Refurbish, Recycle, Recover and Reuse); recycling practices and problems, material flow and informal sector in trade value chain; fostering partnership between formal-informal sectors; safe disposal; alternatives to landfilling; role of jurisprudence and regulatory bodies; and education and awareness. It also includes a survey of pan-India initiatives and trajectories of law-driven initiatives for effective e-waste management along with responses from industries and producers. Timely and essential, this volume will be useful to scholars and researchers of environment studies, digital waste management,

waste management, development studies, public policy, political ecology, sustainable development, technology and manufacturing, design and instrumentation, environmental and international law, taxation, commerce, electronic industry, economics, business management, metallurgy, and engineering, labour studies, as well as to policymakers, nongovernmental organisations, and interested general readers.

Cost Effective Technologies for Solid Waste and

Wastewater Treatment Walter de Gruyter GmbH & Co KG

This book gathers peer-reviewed contributions presented at the 4th International Conference on Structural Engineering and Construction Management (SECON'23), held in Angamaly, Kerala, India, on 7-9 June 2023. The meeting served as a fertile platform for discussion, sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future. The respective contributions address various aspects of numerical modeling and simulation in structural engineering, structural dynamics and earthquake engineering, advanced analysis and design of foundations, BIM, building energy management, and technical project management. Accordingly, the book offers a valuable, up-to-date tool and essential overview of the subject for scientists and practitioners alike, and will inspire further investigations and research.

Sustainable Waste Management: Policies and Case Studies Elsevier

This book explores how bioremediation biotechnology is used to remove pollutants in wastewater. Remediation of wastewater is important to ensure that pollutants generated in industry do not affect our environment negatively. Traditional wastewater remediation is not a sustainable process, however by using biological means the sustainability can be improved. Both conventional methods and bioremediation technologies are discussed. Applications for heavy metal, nitrate, and petroleum bioremediation, nanotechnology in bioremediation, and more are explored.

E-Waste Management Copal Publishing Group

This volume uses an innovative and interdisciplinary approach to assess various issues resulting from human-environment interactions in relation to sustainable development. The book encompasses theoretical and applied aspects, using both thematic and regional case studies from India, to highlight the

impact of human-environment interactions at various spatio-temporal scales, with each study focusing on a particular anthropogenic issue, particularly in an Indian context. The book's three focal themes (e.g. habitat linkages, ekistics and social ecology, hazard and environmental management) elaborate the essential components of human-environment interactions with nature, its impact on the surrounding natural and social environments, and management techniques through research innovations. Readers will learn how maladjustments, disturbances and disasters are often inevitable byproducts of human-environment systems, and what conceptual and practical strategies can be applied towards sustainable coexistence. The book will be of interest to students, academics and policymakers engaged in environmental management, human-environment interactions and sustainable development.

Innovative Waste Management Technologies for Sustainable Development Elsevier

There is no subject in the world more vital to the future and sustainability of the planet earth for future generations than that of Waste Management and all it encompasses. Animals produce organic waste only. Human beings, in their ignorance and lack of foresight, have now created so much inorganic waste that the whole planet is suffering from pollution in the air, in the rivers and oceans of the world, as well as on the land masses. This book deals intensively with every aspect of organic and inorganic waste management and explains how each type of waste must be

correctly dealt with if mankind is to decrease the outbreak of disease, thereby ensuring that all inhabitants of the planet Earth have a healthy future. The book also emphasizes the responsibility and steps that each individual must take in every country of the world if we are to return Mother Earth to her former glory in the 21st century.

SOLID WASTE MANAGEMENT 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 innova

Municipal Solid Waste Management in Asia and the Pacific Islands CRC Press

This book presents the select proceedings of the international conference on Sustainable Practices and Innovations in Civil Engineering 2021 (SPICE 2021). The topics covered include the addition and replacement of cementitious materials in concrete, thereby enhancing the strength and durability characteristics of concrete, instrumentation and testing in structural engineering, ground improvement techniques, water management, waste management, and energy efficiency and sustainability in construction. It also includes few papers in the area of environmental civil engineering and discusses key issues in the

field of water resources and the impact of COVID-19 on the construction industry. This book is a valuable reference to the students, researchers, and professionals in the field of civil engineering.

Language and Cross-Cultural Communication in Travel and Tourism CRC Press

Solid waste management issues, technologies and challenges are dynamic. More so, in developing and transitory nations in Asia. This book, written by Asian experts in solid waste management, explores the current situation in Asian countries including Pacific Islands. There are not many technical books of this kind, especially dedicated to this region of the world. The chapters form a comprehensive, coherent investigation in municipal solid waste (MSW) management, including, definitions used, generation, sustainable waste management system, legal framework and impacts on global warming. Several case studies from Asian nations are included to exemplify the real situation experienced. Discussions on MSW policy in these countries and their impacts on waste management and minimization (if any) are indeed an eye-opener. Undoubtedly, this book would be a pioneer in revealing the latest situation in the Asian region, which includes two of the world's most dynamic nations in the economic growth. It is greatly envisaged to form an excellent source of reference in MSW management in Asia and Pacific Islands. This book will bridge the wide gap in available information between the developed and transitory/developing nations.

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