**Environmental Science** 

Ramesha Chandrappa Diganta Bhusan Das

# Solid Waste Management

**Principles and Practice** 



Ramesha Chandrappa, Diganta Bhusan Das

Solid Waste Management Ramesha Chandrappa, Diganta Bhusan Das, 2012-06-30 Solid waste was already a problem long before water and air pollution issues attracted public attention Historically the problem associated with solid waste can be dated back to prehistoric days Due to the invention of new products technologies and services the quantity and quality of the waste have changed over the years Waste characteristics not only depend on income culture and geography but also on a society's economy and situations like disasters that affect that economy There was tremendous industrial activity in Europe during the industrial revolution The twentieth century is recognized as the American Century and the twenty first century is recognized as the Asian Century in which everyone wants to earn as much as possible After Asia the currently developing Africa could next take the center stage With transitions in their economies many countries have also witnessed an explosion of waste quantities Solid waste problems and approaches to tackling them vary from country to country For example while efforts are made to collect and dispose hospital waste through separate mechanisms in India it is burnt together with municipal solid waste in Sweden While trans boundary movement of waste has been addressed in numerous international agreements it still reaches developing countries in many forms While thousands of people depend on waste for their livelihood throughout the world many others face problems due to poor waste management In this context solid waste has not remained an issue to be tackled by the local urban bodies alone It has become a subject of importance for engineers as well as doctors psychologist economists and climate scientists and any others There are huge changes in waste management in different parts of the world at different times in history To address these issues an effort has been made by the authors to combine their experience and bring together a new text book on the theory and practice of the subject covering the important relevant literature at the same time Solid Waste Management Ramesha Chandrappa, Jeff Brown, 2012-07-01 Solid waste was already a problem long before water and air pollution issues attracted public attention Historically the problem associated with solid waste can be dated back to prehistoric days Due to the invention of new products technologies and services the quantity and quality of the waste have changed over the years Waste characteristics not only depend on income culture and geography but also on a society s economy and situations like disasters that affect that economy There was tremendous industrial activity in Europe during the industrial revolution The twentieth century is recognized as the American Century and the twenty first century is recognized as the Asian Century in which everyone wants to earn as much as possible After Asia the currently developing Africa could next take the center stage With transitions in their economies many countries have also witnessed an explosion of waste quantities Solid waste problems and approaches to tackling them vary from country to country For example while efforts are made to collect and dispose hospital waste through separate mechanisms in India it is burnt together with municipal solid waste in Sweden While trans boundary movement of waste has been addressed in numerous international agreements it still reaches developing countries in many forms While thousands of

people depend on waste for their livelihood throughout the world many others face problems due to poor waste management In this context solid waste has not remained an issue to be tackled by the local urban bodies alone It has become a subject of importance for engineers as well as doctors psychologist economists and climate scientists and any others There are huge changes in waste management in different parts of the world at different times in history To address these issues an effort has been made by the authors to combine their experience and bring together a new text book on the theory and practice of the subject covering the important relevant literature at the same time Solid Waste Management Ramesha Chandrappa, Diganta Bhusan Das, 2024-03-20 This book discusses solid waste management issues from global to local level It offers an overview of the methods and paradigms of this burgeoning field ranging from generation characteristics quantity and practical challenges The book discusses the major issues with respect to environmental health and economy which are related to solid waste management Furthermore it contains updated information on topics such as toxicology climate change population pressure urbanization energy production building and community design and disaster preparedness in the context of solid waste management **Encyclopedia of Environmental Science and Engineering, Volumes One and Two** James R. Pfafflin, Edward N. Ziegler, 2006-01-13 Completely revised and updated Encyclopedia of Environmental Science and Engineering Fifth Edition spans the entire spectrum of environmental science and engineering Still the most comprehensive authoritative reference available in this field the monumental two volume encyclopedia has expanded to include 87 articles Environmental Engineering and Waste Management Vineet Kumar, Sartaj Ahmad on topics ranging from acid Bhat, Sunil Kumar, Pradeep Verma, 2024-07-04 This book presents fundamental principles and recent advancements in managing waste in an environmentally sustainable manner It explores a wide array of methods and technologies designed to transform waste thereby reducing health impacts across various stages such as waste minimization transportation handling storage and disposal of solid wastes Moreover the book delves into waste contaminated site assessment methods environmental issues and impacts as well as the latest regulatory and policy statutes. The inclusion of case studies allows for the assessment of diverse waste management challenges showcasing how environmental engineering methods can be applied to process industrial waste sustainably For instance certain sections of the book delve into the intricate microbial communities and their metabolic pathways illustrating their role in the remediation and management of municipal waste at landfill sites This book caters to a broad audience including teachers researchers practitioners environmental engineers chemical engineers soil scientists policymakers and students specializing in environmental engineering chemical engineering environmental biotechnology and environmental science Environmental Materials and Waste Majeti Narasimha Vara Prasad, 2024-07-13 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 to meet the demands of a worldwide growing population and economy The book takes a multidisciplinary approach to fully

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