

## Basics Of Solid And Hazardous Waste Management Technology By Kanti L Shah

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The hazardous waste management program uses the term solid waste to denote something that is a waste. EPA developed hazardous waste regulations that define in more detail what materials are solid waste for the purposes of RCRA Subtitle C (hazardous waste) regulation. Simply defined, a hazardous waste is a waste with properties that make it dangerous or capable of having a harmful effect on human health or the environment.

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Solid and Hazardous Waste Management and Disposal Hazardous wastes are a major concern of environmental engineering. They are a potential hazard for public health, since they may be toxic, radioactive, corrosive, and/or flammable.

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Synopsis. This easy-to-read and pragmatic book offers a systematic treatment of solid and hazardous waste management technology. Encouraging self-learning, with a focus on current technical and scientific fundamentals, it covers all the basic concepts and tools needed for making decisions. Chapter topics include environmental legislation and regulations; sources; composition and characteristics; physical, chemical, and biological properties; storage, collection and transportation; processing ...

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Solid and Hazardous Waste Management: Science and Engineering presents the latest on the rapid increase in volume and types of solid and hazardous wastes that have resulted from economic growth, urbanization, and industrialization and how they have challenged national and local governments to ensure effective and sustainable management of these waste products. The book offers universal coverage of the technologies used for the management and disposal of waste products, such as plastic waste, bio-medical wastes, hazardous wastes, and e-wastes. Covers both traditional and new technologies for identifying and categorizing the source and nature of the waste Provides methods for the safe disposal of municipal solid wastes, plastic waste, bio-medical wastes, hazardous wastes, and e-wastes Presents technologies that can be used for transportation and processing (including resource recovery) of the waste Discusses reclamation, reuse, and recovery of energy from MSW

This book presents reviews, examples and case studies of innovative applications in solid and hazardous waste management. The economics of waste management have since become a significant research area in their own right, and two chapters address these issues. In addition, dedicated chapters cover specific categories of waste such as biomedical and institutional waste, plastics and e-waste. The book subsequently discusses newer analytical methods like SEM, EDX, XRD and optical microscopy, along with selected "older" methods for sampling and characterizing different types of waste. The various applications of mathematical tools like linear optimization, various software/models like WISCleach, and DRASTIC, and tools like remote sensing and GIS are illustrated in many of the chapters. Lastly, since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste, the book provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste-related biological processes. The book was primarily written for students and practitioners in the field who are already familiar with the basics. All chapters were prepared by practicing experts and scholars in the field, and are intended to help readers better understand and apply these principles and practices in their own endeavours. Key topics covered in the book: • The circular economy and the economics of solid waste management • Various remote sensing and GIS applications for managing municipal solid waste, coal fires in mines, changes in land use and land cover in industrial areas, etc. • Treatment and management of different types of solid waste: institutional (including biomedical), residential, e-waste, plastic, and ash from thermal power plants • Sampling and characterization of municipal waste and compost • Fundamentals of microbiology • Overview of environmental regulations, especially those pertaining to solid and hazardous waste management

This book explores state-of-art techniques based on methodological and modeling aspects of solid and hazardous waste management, specifically focusing on the recent trends in data acquisition and robust modeling of the results obtained. In addition to an in-depth description of the recent regulatory paradigm for solid waste disposal and revealing insights into solid waste management models, the book also addresses significant case history and remediation methodologies for sustainable development in emerging economies like India, China and Brazil. The main emphasis is on a suitable regulatory framework with site-specific baseline calibration and aimed at the robust modeling of contaminant transport and its remediation. This is based on instructive case history in various locations/regions worldwide. The focus on recent modeling and quantification methods is the backbone of the book. One of the major aspects discussed is the application of non-invasive methods for studies related to the Earth's interior, which are increasingly preferred over invasive techniques thanks to their economic utility, as well as robust techniques for the interpretation of geophysical data. The increasing demand for groundwater and energy resources, especially for rapidly emerging countries with large populations like India and China, has made it vital to derive safe utilization approaches for our resources, including suitable waste disposal and remediation methodologies that can be adopted for 'contaminated sites.'

Hazardous Waste and Solid Waste covers the life of municipal solid waste, bulky (C&D) waste and hazardous waste. It provides in-depth coverage on all aspects of waste characterization, treatment, disposal, and recovery. The book identifies the sources of solid waste, provides general information of the quantities of waste generated and discarded, and examines the potential effects of solid waste on daily life and the environment. It also defines hazardous waste, and provides the criteria environmental engineers must use to determine if material is indeed a waste. The editors give attention to the unique problems of risk assessment, including the Hazard Ranking System and the National Priority List, and transport of hazardous materials. It addresses radioactivity individually, with sections devoted to the principles and sources of radioactivity, safety standards, detection, analysis, recovery, low-level radioactive waste, and high-level radioactive waste. The guide explores municipal waste reduction, material recovery and refuse-derived fuel within a catalog of options for solid waste. Hazardous and Solid Waste is an excellent fundamental resource for those involved in any aspect of waste management. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

This third edition updates and expands the material presented in the best-selling first and second editions of Basic Hazardous Waste Management. It covers health and safety issues affecting hazardous waste workers, management and regulation of radioactive and biomedical/infectious wastes, as well as current trends in technologies. While the topics have been completely revised, the author employs the same practical approach that made the previous editions so popular. Chapters are structured to first outline the issue, subject, or technology, then to describe generic practice, and then to conclude with a summary of the statutory or regulatory approach. Blackman introduces fundamental issues such as human health hazards; the environmental impacts of toxic, reactive, and ignitable materials; the mobility, pathways and fates of released hazardous materials; and the roles of science, technology, and risk assessment in the standards-setting process. He explores hazardous waste site remediation technology, and the application of federal statutes, regulations, programs, and policies to the cleanup of contaminated sites. This text provides an introductory framework-which can serve as the foundation for a program of study in traditional as well as modern hazardous waste management-or a component of a related program. Its overview format provides numerous references to more detailed materials to assist the student or instructor in expansion on specific topics.