

Hazardous Waste Management By Michael D Lagrega

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 Handbook of Solid Waste Management
 A Practical Guide
 Second Edition
 Solid waste management

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 Michael D Lagrega*

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Superfund as a Perspective to Hazardous Waste Management

Routledge
 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.

Infectious Waste Management MIT Press

Presenting effective, practicable strategies modeled from ultramodern technologies and framed by the critical insights of 78 field experts, this vastly expanded Second Edition offers 32 chapters of industry- and waste-specific analyses and treatment methods for industrial and hazardous waste materials-from explosive wastes to landfill leachate to w
Hazardous Waste Tracking and Cost Accounting Practice CRC Press

This book examines the U.S. system of intergovernmental relations pertaining to ocean resources. The exploitation of the oceans with regard to fisheries, marine mammals, hydrocarbons and economic minerals, waste disposal, and coastal zone management is analyzed in the context of the Reagan administration's New Federalism. The contributors document the relationships that exist between the various levels of government - federal, state, and local - involved in regulating ocean resources and explore the problems associated with the use of specific

resources. The analyses suggest no single pattern of government guidelines during the Reagan years, and they explain existing federal systems in relation to improve the management and conservation of ocean resources.

Sources, Pathways, Receptors John Wiley & Sons Incorporated
 This book covers a broad group of wastes, from biowaste to hazardous waste, but primarily the largest (by mass and volume) group of wastes that are not hazardous, but also are not inert, and are problematic for three major reasons: (1) they are difficult to manage because of their volume: usually they are used in civil engineering as a common fill etc., where they are exposed to environmental conditions almost the same way as at disposal sites; (2) they are not geochemically stable and in the different periods of environmental exposure undergo transformations that might add hazardous properties to the material that are not displayed when it is freshly generated; (3) many designers and researchers in different countries involved in waste management are often not aware of time-delayed adverse environmental impact of some large-volume waste, and also do not consider some positive properties that may extend the area of their environmentally beneficial application.

Hazardous Wastes World Bank Publications

In a world where waste incinerators are not an option and landfills are at over capacity, cities are hard pressed to find a solution to the problem of what to do with their solid waste. Handbook of Solid Waste Management, 2/e offers a solution. This handbook offers an integrated approach to the planning, design, and management of economical and environmentally responsible solid waste disposal system. Let twenty industry and government experts provide you with the tools to design a solid waste management system capable of disposing of waste in a cost-efficient and environmentally responsible manner. Focusing on the six primary functions of an integrated system--source reduction, toxicity reduction, recycling and reuse, composting, waste- to-energy combustion, and landfilling--they explore each technology and examine its problems, costs, and legal and social ramifications.

Leachate Management for Hazardous Waste Landfills in the Southeastern United States

CRC Press
 Hazardous waste management is a complex, interdisciplinary field that continues to grow and change as global conditions change. Mastering this evolving and multifaceted field of study requires knowledge of the sources and generation of hazardous wastes, the scientific and engineering principles necessary to eliminate the threats they pose to people and the environment, the laws regulating their disposal, and the best or most cost-effective methods for dealing with them. Written for students with some background in engineering, this comprehensive, highly acclaimed

text does not only provide detailed instructions on how to solve hazardous waste problems but also guides students to think about ways to approach these problems. Each richly detailed, self-contained chapter ends with a set of discussion topics and problems. Case studies, with equations and design examples, are provided throughout the book to give students the chance to evaluate the effectiveness of different treatment and containment technologies.

Integrated Hazardous Waste Management Routledge

This technical guide seeks to demonstrate that, by encouraging small, continuous improvements in landfill siting, construction, and operation, the accumulative effect over time is the achievement of better operations. The guide does not seek an immediate adoption of sanitary landfill practices. Instead, sanitary landfill is regarded as an eventual goal for which middle- and lower-income countries can plan during the course of several years. A common theme throughout the guide is the emphasis on the practical ways landfills can evolve, as resources and confidence increase, from open dumps to "controlled" dumps to "engineered" landfills and perhaps, one day, to sanitary landfills.
Ocean Resources And U.S. Intergovernmental Relations In The 1980s Hazardous Waste Management Second Edition
 New York Times Bestseller What are the consequences if the people given control over our government have no idea how it works? "The election happened," remembers Elizabeth Sherwood-Randall, then deputy secretary of the Department of Energy. "And then there was radio silence." Across all departments, similar stories were playing out: Trump appointees were few and far between; those that did show up were shockingly uninformed about the functions of their new workplace. Some even threw away the briefing books that had been prepared for them. Michael Lewis's brilliant narrative takes us into the engine rooms of a government under attack by its own leaders. In Agriculture the funding of vital programs like food stamps and school lunches is being slashed. The Commerce Department may not have enough staff to conduct the 2020 Census properly. Over at Energy, where international nuclear risk is managed, it's not clear there will be enough inspectors to track and locate black market uranium before terrorists do. Willful ignorance plays a role in these looming disasters. If your ambition is to maximize short-term gains without regard to the long-term cost, you are better off not knowing those costs. If you want to preserve your personal immunity to the hard problems, it's better never to really understand those problems. There is upside to ignorance, and downside to knowledge. Knowledge makes life messier. It makes it a bit more difficult for a person who wishes to shrink the world to a worldview. If there are dangerous fools in this book, there are also heroes, unsung, of course. They are the linchpins of the

system—those public servants whose knowledge, dedication, and proactivity keep the machinery running. Michael Lewis finds them, and he asks them what keeps them up at night.

Hazardous Waste and Consolidated Permit Regulations John Wiley & Sons

First published in 1992, *Waste Location* seeks to widen and integrate the debate on the intrinsically spatial nature of waste disposal. The political and industrial significance of the new environmentalism of the 1980s came from the recognition of growing public pressure for environmental quality and product reliability. Attention was turned to waste as the product of consumption. As the political economy of waste was explored, new issues were raised: new technologies, recycling, pollution havens, waste minimization, location of landfill sites and incinerator facilities, and environmental crime, responsibility and planning. The 1990s sees the advocates of 'cradle to grave' responsibility still battling the promoters of market forces. One of the major developments in the study of waste collection and disposal was the new forms of data collection and handling technology. The contributors consider both geotechnics and geographical information systems within this context. The focus on the geography of the UK is set within the broader framework of political economy and the international trade in pollution exports. The case studies presented range from bin analysis through a Bayesian perspective on risk to the global politics of international waste streams. Together, the contributors provide a comprehensive overview of the waste location debate in the early 1990s. Students of environment and climate change will find this book particularly enlightening.

Environmental Protection Agency Springer Science & Business Media

First published in 1994, as part of the AAAS Selected Symposia Series. National strategies to minimize pollution, including that from hazardous waste, are evolving in both the United States and Canada. Recent federal hazardous waste regulations in the United States, promulgated under the authority of the Resource Conservation and Recovery Act of 1976 (RCRA), encourage the states to develop their own waste management programs, patterned after federal specifications; some states have developed progressive options. Canadian hazardous waste management programs originate in the provinces. However, the federal government is increasingly involved in developing new treatment technologies, guidelines for consistent management, and control of waste across political boundaries. The authors of this volume find that disposal is still the most common practice for handling hazardous waste in both countries, despite the potential for alternative methods such as industrial process redesign for waste reduction, waste detoxification, recycling, or incineration. Nonetheless, some waste will remain. Sound disposal site selection criteria are prerequisite for industry and government credibility in site selection. Only after accountability is established and recognized will the public lose symptoms of the NIMBY (not in my backyard) syndrome. Even so, public involvement in site selection in these countries should be expected for a site to be accepted. All the while, the three parties—industry, government, and the public—must balance the risk of potential waste hazards with the cost of avoiding adverse effects.

Hazardous Waste Management Georgetown University Press
Mutual distrust defines the relationship between those who are the sources of hazardous wastes and those who oversee their activities. A lack of credibility, argue the authors, is a formidable, if not the biggest, obstacle to properly managing hazardous waste in the United States. Nowhere is the credibility gap wider than where there are hazardous waste management facilities or where sites have been proposed. The purpose of this book is to provide comprehensive perspectives on hazardous waste sites in the United States. The sources of hazardous waste are described along with the scientific and legal climates that allowed wastes to be discarded with little attention to impacts. Evidence is weighed for and against public health, as well as environmental, economic, and social damages at abandoned sites. Political processes and analytical techniques are suggested and illustrated for those who are involved in the siting of new facilities. A strategy for hazardous waste management is offered, together with approaches to substantially reduce the difficulties faced by local planners and site managers who face a hostile public. A historical legacy of mismanagement, fueled by exaggeration of impacts and by a lack of information, characterizes hazardous waste management in the United States. This book will be important to planners, environmental scientists, and public health officials. In order to assure accessibility for the casual reader, the authors keep the explanation of mathematical methods and technologies in this area to a minimum.

Municipal, Hazardous, and Industrial McGraw Hill Professional
In *Whose Backyard, Whose Risk*, environmental lawyer, professor, and commentator Michael B. Gerrard tackles the thorny issue of how and where to dispose of hazardous and radioactive waste. In

Whose Backyard, Whose Risk, environmental lawyer, professor, and commentator Michael B. Gerrard tackles the thorny issue of how and where to dispose of hazardous and radioactive waste. Gerrard, who has represented dozens of municipalities and community groups that have fought landfills and incinerators, as well as companies seeking permits, clearly and succinctly analyzes a problem that has generated a tremendous amount of political conflict, emotional anguish, and transaction costs. He proposes a new system of waste disposal that involves local control, state responsibility, and national allocation to deal comprehensively with multiple waste streams. Gerrard draws on the literature of law, economics, political science, and other disciplines to analyze the domestic and international origins of wastes and their disposal patterns. Based on a study of the many failures and few successes of past siting efforts, he identifies the mistaken assumptions and policy blunders that have helped doom siting efforts. Gerrard first describes the different kinds of nonradioactive and radioactive wastes and how each is generated and disposed of. He explains historical and current siting decisions and considers the effects of the current mechanisms for making those decisions (including the hidden economics and psychology of the siting process). A typology of permit rules reveals the divergence between what underlies most siting disputes and what environmental laws actually protect. Gerrard then looks at proposals for dealing with the siting dilemma and examines the successes and failures of each. He outlines a new alternative for facility siting that combines a political solution and a legal framework for implementation. A hypothetical example of how a siting decision might be made in a particular case is presented in an epilogue.

Environmental Resources Management Hazardous Waste Management McGraw-Hill Professional Pub

Everyday, thousands of hospitals around the country produce thousands of tons of infectious waste. The disposal of this waste is considered one of America's primary environmental problems. Drawing on the author's 20 years of experience as an administrator, department director, and staff consultant, *Infectious Waste Management* offers an insider's approach to medical waste management. This reference includes information on how to manage medical waste practically. It gives simple, effective procedures on how to establish or revitalize a waste management program. Written in a friendly, understandable style, the book covers everything from working with administration to provide necessary resources to getting employees to work effectively. It describes cost-containing guidelines and establishing regulatory compliance. This invaluable guide discusses proper department procedures and methods to monitor systems. The book contains "education modules" or short education tools which can be used to convey important task-oriented information to staff. The book is divided into three sections according to the intended audience. Text in the first section is directed toward hospital administrators and members of the infection control and safety committees. The second is primarily for department directors and focuses on writing infectious waste management procedures for the departments of environmental services and maintenance. This section also addresses the essential functions of program monitoring and waste tracking or manifesting. The third part is for people responsible for educating staff. Together, these sections present an effective, full-staff approach to infectious waste management. The book has a number of appendices, which restate important points made throughout the book and provide sample policies, procedures, letters, memos, reference cards, and other management or education tools that will prove helpful.

Hazardous Waste Management for the Clinical Laboratory at Stanford University Hospital Cengage Learning
The collection, transportation and subsequent processing of waste materials is a vast field of study which incorporates technical, social, legal, economic, environmental and regulatory issues. Common waste management practices include landfilling, biological treatment, incineration, and recycling - all boasting advantages and disadvantages. Waste management has changed significantly over the past ten years, with an increased focus on integrated waste management and life-cycle assessment (LCA), with the aim of reducing the reliance on landfill with its obvious environmental concerns in favour of greener solutions. With contributions from more than seventy internationally known experts presented in two volumes and backed by the International Waste Working Group and the International Solid Waste Association, detailed chapters cover: Waste Generation and Characterization Life Cycle Assessment of Waste Management Systems Waste Minimization Material Recycling Waste Collection Mechanical Treatment and Separation Thermal Treatment Biological Treatment Landfilling Special and Hazardous Waste Solid Waste Technology & Management is a balanced and detailed account of all aspects of municipal solid waste management, treatment and disposal, covering both engineering and management aspects with an overarching emphasis on the life-cycle approach.

A Hazardous Waste Management Strategy for the Nelson-Marlborough Region CRC Press

Readers gain the knowledge to address the growing and increasingly intricate problem of controlling and processing the refuse created by global urban societies with *SOLID WASTE ENGINEERING: A GLOBAL PERSPECTIVE*, 3E. While the authors prepare readers to deal with issues, such as regulations and legislation, the main emphasis throughout the book is on mastering solid waste engineering principles. The book first explains the basic principles of the field and then demonstrates through worked examples how readers can apply these principles in real world settings. Readers learn to think reflectively and logically about the problems and solutions in today's solid waste engineering. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Nonregulated Hazardous Waste Management Plan for the Central Vermont Solid Waste Management District CRC Press

This edition includes chapters on storage and transportation of hazardous wastes, hazardous waste spills and spill clean-ups, and low level red waste management. Industry experts discuss innovative waste treatment technologies and land disposal
Handbook of Industrial and Hazardous Wastes Treatment W. W. Norton & Company

Environmental challenges have never been greater than today. There is the need for the utmost accuracy in the efforts to track the use, manufacture, processing, treatment, and disposal of toxic and hazardous materials. Legislation passed over the last twenty years has not only resulted in improved environmental quality, but has also created new levels of accountability for today's environmental professional. This book helps companies meet the ever-growing number of recordkeeping, reporting, and information-management demands. It assists the practicing professional who must keep facility records relating to the generation and management of solid and hazardous waste. Specific guidance is given on the principles of waste material tracking by point of generation and fully loaded waste management cost accounting. Some benefits to tracking by point of generation are:

Waste Management and Resource Recovery CRC Press

A comprehensive, single-source reference of current issues in solid waste management designed as an aid in decision-making and assessment of future trends. Covers public perceptions, legislation, regulation, planning and financing, and technologies and operation. Reviews the evolution of waste management since the passage of the Resource Conservation and Recovery Act of 1976, amended in 1978, 1980 and 1984. Examines common and divergent public and private concerns, including an in-depth review of public perceptions and their effect on planning and implementation. Also includes a discussion of the inadequacies of most waste quantity and composition estimates, with techniques for adequate evaluation. Looks at the misunderstanding and controversy over source separation and issues in municipal resource recovery from the viewpoint of the private scrap process industry. Also includes an unprecedented examination of the problem of bulky waste logistics and its effect on current disposal practice, and case histories and the current status of energy recovery from industrial waste. With over 500 tables, graphs, and illustrations.

An Evaluation of the Status of Hazardous Waste Management in Region X Routledge

A practical guide for the identification and management of a range of hazardous wastes, *Waste Management Practices: Municipal, Hazardous, and Industrial* integrates technical information including chemistry, microbiology, and engineering, with current regulations. Emphasizing basic environmental science and related technical fields, the book is an *Agency Proposes Not to List 14 Spent Solvents* Waveland Press
This book provides a basic understanding of waste management problems and issues faced by modern society. Scientific, technical, and environmental principles are emphasized to illustrate the processes of municipal and industrial solid wastes and liquid wastes, and the nature of impacts resulting from waste dispersal and disposal in the environment. Economic, social, legal, and political aspects of waste management are also addressed. Environmental issues and concerns receive thorough coverage in discussing waste reduction, resource recovery, and efficient and practical waste disposal systems. Other specific topics include recycling, physical and chemical processing, the biological treatment of waste solids, incineration, pyrolysis, and energy recover, hazardous wastes, and landfill management. The role of government and other institutions in waste management and resource recovery matters is also detailed. Discussion questions, worked examples, and end-of-chapter problems reinforce important concepts. *Waste Management and Resource Recovery* is particularly suitable as a text in waste management courses in environmental science or engineering programs. It also works well as a reference for practitioners in the waste management field.