Hazardous Waste Management by Michael D Lagrega

Quantitative Environmental Risk Analysis for Human Health

Hazardous Waste Siting and Democratic Choice

Leachate Management for Hazardous Waste Landfills in the Southeastern United States

A COMPREHENSIVE TEXTBOOK AND REFERENCE FOR QUANTITATIVE ENVIRONMENTAL RISK ANALYSIS FOR BOTH CHEMICAL AND RADIOACTIVE CONTAMINANTS

Environmental risk analysis is complex and interdisciplinary; this book explains the fundamental concepts and analytical methods in each essential discipline. With an emphasis on concepts and applications of quantitative tools plus coverage of analysis of both chemical and radioactive contaminants, this
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is a comprehensive resource. After an introduction and an overview of the basics of environmental modeling, the book covers key elements in environmental risk analysis methodology, including: Release assessment and source characterization Migration of contaminants in various media, including surface water, groundwater, the atmosphere, and the food chain Exposure assessment Basic human toxicology and dose-response Risk characterization, including dose-response modeling and analysis Risk management process and methods Risk communication and public participation This reference also relates risk analysis to current environmental laws and regulations. An ideal textbook for graduate students and upper-level undergraduates in various engineering and quantitative science disciplines, especially civil and environmental engineering, it is also a great reference for practitioners in industry, environmental consulting firms, and regulatory agencies.

A n Evaluation of the Status of Hazardous Waste Management in Region X

Hazardous Waste Sites

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
Hazardous Waste Management

Hazardous Waste Management provides a comprehensive overview of a complex, interdisciplinary field. To prepare the graduate who will be entering the rapidly growing field of hazardous waste management, the book demonstrates how science and engineering disciplines work together to identify and correct threats to human health and the environment. The book's comprehensiveness enables the student to select specialized areas for further study and research. The authors combine the theoretical framework with their diversified real-world experience in international environmental consulting. The chapters include case studies, example problems, and discussion topics and problems.

Attitudes to Environmental Pollution and Hazardous Waste Management Facilities in Niagara Falls

Assuming no previous knowledge, this second edition provides comprehensive coverage for a first course in hazardous waste management for civil, environmental engineers, and managers. The update includes material on the new USEPA revisions to the Solid and Hazardous Waste Regulations and the new e-Manifest Rule. It is written primarily for generators of hazardous waste with a primary emphasis on source reduction, waste minimization, reuse, and recycling before waste disposal. Numerous case studies from the field and clarification of regulations simplify this complex topic. The book provides guidance on how to determine the proper category of hazardous waste generators, with separate and distinct sets of requirements for the three different categories of generators, and gives basic supplemental guidance for transporters, storage, and disposal facilities. It covers proper completion of hazardous waste manifests and reports. The book explains record keeping, personnel training, and other requirements necessary to be in full compliance on inspections. A companion CD with regulatory forms, data is included. FEATURES: • Provides numerous, field case studies and clarification of new regulations to simplify this complex topic • Includes material on the new USEPA revisions to the Solid and Hazardous Waste Regulations and the new e-Manifest Rule • Covers all the major government regulations from inception to current practice • Explains record keeping, personnel training, and requirements necessary for full compliance on inspections • Includes companion CD with regulatory forms, data Selected Topics: Introductory history and overview of hazardous waste management laws, rules and regulations; a practical guide to complying with the regulations, including the identification of hazardous wastes; proper management of these wastes on-site; preparing generator annual reports, manifests, personnel safety training; hazardous waste management training for staff; proper record-keeping for future regulatory inspections.

Hazardous Waste Sites

Basic Hazardous Waste Management
A Hazardous Waste Management Strategy for the Nelson-Marlborough Region

Environmental Protection Agency


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.

Solid Waste Technology and Management, 2 Volume Set

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 Waste Management
Hazardous Waste Management Engineering

Geoenvironmental Engineering covers the application of basic geological and hydrological science, including soil and rock mechanics and groundwater hydrology, to any number of different environmental problems. * Includes end-of-chapter summaries, design examples and worked-out numerical problems, and problem questions. * Offers thorough coverage of the role of geotechnical engineering in a wide variety of environmental issues. * Addresses such issues as remediation of in-situ hazardous waste, the monitoring and control of groundwater pollution, and the creation and management of landfills and other above-ground and in-situ waste containment systems.

Hazardous Waste Management

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.

Handbook of Advanced Industrial and Hazardous Wastes Management

A junior/senior-level introductory text aimed at civil and environmental engineers taking a basic introduction to Solid Waste Management. The text includes the latest 1990-1991 laws and regulations.

Handbook on Household Hazardous Waste

Handbook of Solid Waste Management
Hazardous Waste Management System

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.

Solid Waste: Assessment, Monitoring and Remediation

Integrated Hazardous Waste Management

Drawing from a variety of engineering and science disciplines, this book provides a comprehensive overview of the complex field of hazardous waste management. It is aimed at undergraduate and postgraduate engineering students taking a first course in the subject.

Superfund as a Perspective to Hazardous Waste Management

Engineers who play a major role in hazardous waste management, must have full understanding of technical, regulatory, economic, permitting, institutional and public policy issues. This reference book provides this information, providing data and techniques that can be applied to analyzing, designing and developing effective hazardous waste management solutions.

Environmental Resources Management Hazardous Waste Management

This volume provides in-depth coverage of environmental pollution sources, waste characteristics, control
technologies, management strategies, facility innovations, process alternatives, costs, case histories, effluent standards, and future trends in waste treatment processes. It delineates methodologies, technologies, and the regional and global effects of important pollution control practices. It focuses on specific industrial and manufacturing wastes and their remediation. Topics include: heavy metals, electronics, chemical, and textile manufacturing.

Waste Management Practices

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.

Integrated Solid Waste Management: Engineering Principles and Management Issues

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Whose Backyard, Whose Risk

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.

Infectious Waste Management

Hazardous waste management in a developing nation

Geoenvironmental Engineering
Hazardous Waste Reduction Research Needs in New York State

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 i

Standard Handbook of Hazardous Waste Treatment and Disposal

This volume analyzes the politics of hazardous waste siting and explores promising new strategies for siting facilities. Existing approaches to waste siting facilities have almost entirely failed, across all industrialized countries, largely because of community or NIMBY (Not in My Backyard) opposition. This volume examines a new strategy, voluntary choice siting--a process requiring mutual decisions negotiated between facility developers and the host communities. This bottom-up approach preserves democratic rights, recognizes the importance of public perceptions, and addresses issues of equity. In this collection, an interdisciplinary group of experts probes recent examples of waste facilities siting in the United States, Canada, Germany, and Japan. Both the successes and the failures presented offer practical insights into the siting process. The book includes an introductory review of the literature on facility siting and the NIMBY phenomenon as well as instructive essays on the use of voluntary processes in facilities siting. This book will be of value to policymakers, industry, and environmental groups, as well as to those working in environmental studies and engineering, political science, public health, geography, planning, and business economics.

Waste Management Facilities Cost Information for Hazardous Waste

Hazardous Wastes

Hazardous Waste Management for the Clinical Laboratory at Stanford University Hospital

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.

Cleaning Up the Wastestream

Handbook of Florida Water Regulations

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

Hazardous waste management

Written by leading practitioners, this updated edition looks at household hazardous waste and its
collection/management, including chapters on planning a facility, marketing to affect behavior change, and
encouraging extended product stewardship. Includes information on new regulations and advances and a
comprehensive reference section.