

# Hazardous Waste Management Lagrega

Hazardous Waste Management Hazardous Waste Management **Hazardous Waste Management** Hazardous Waste Management **Environmental Engineering Science** *Waste Management and Resource Recovery* **Management of Hazardous Wastes** Scheffer/Schachtschabel Soil Science **Theory and Practice of Water and Wastewater Treatment** **Waste Management Practices in Developing Countries** **Advances in Solid and Hazardous Waste Management** **Quantitative Environmental Risk Analysis for Human Health** **Industrial Waste Treatment** Environmental Organic Chemistry *Physicochemical Treatment of Hazardous Wastes* **PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES** **Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products** **Waste Treatment and Disposal** *Environmental Biology for Engineers and Scientists* *Geoenvironmental Engineering* *Water Purification and Management* Air Pollution Control *Solid Waste Engineering: A Global Perspective* **Geoenvironmental Engineering** **Wastewater Treatment and Reuse Theory and Design Examples, Volume 2: Introduction to Environmental Engineering** *Metal Recovery from Industrial Waste* Psychosocial Effects of Hazardous Toxic Waste Disposal on Communities *Solid and Hazardous Waste Management* **Microbiology of Landfill Sites** Chemical Containment of Waste in the Geosphere **Pollution Prevention** *Environmental Engineering FE/EIT Preparation Sample Questions and Solutions* **Environmental Protection Strategies for Sustainable Development** Air Pollution **Hazardous Wastes** **Advanced Air and Noise Pollution Control Standard Handbook of Hazardous Waste Treatment and Disposal** **Waste Management Practices** *Applied Hydrogeology*

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**Waste Treatment and Disposal** May 15 2021  
Following on from the successful first edition of Waste Treatment & Disposal, this second edition has been completely updated, and provides comprehensive coverage of waste process engineering and disposal methodologies. Concentrating on the range of technologies available for household and commercial waste, it also presents readers with relevant legislative background material as boxed features. NEW to this edition: Increased coverage of re-use and recycling Updating of the usage of different

waste treatment technologies Increased coverage of new and emerging technologies for waste treatment and disposal A broader global perspective with a focus on comparative international material on waste treatment uptake and waste management policies **Industrial Waste Treatment** Oct 20 2021  
Taking the reader through the history of industrial waste treatment and directing them toward a new path of best practice, Industrial Waste Treatment illustrates how current treatment techniques are affected by regulatory and economic constraints, scientific knowledge

and tolerances. This book provides the reader with the basis for a more effective method of waste treatment which is sustainable and supportive of industrial improvements. Overall, it provides valuable information for planners, industrial, civil and environmental engineers and government officials for a better understanding of current practices and regulatory history and how these factors relate to the ability to complete environmental solutions to industrial waste problems. Provides environmental history from a professional/technical point-of-view as a basis for total solutions engineering Includes sustainable practice necessary for the 21st Century Thoroughly explores industry and environmental regulations over the past 150 years

**Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products** Jun 15 2021 Life-cycle assessment is a methodology used to evaluate the environmental impacts of a product, process, or service during its life cycle, and risk assessment is a tool to evaluate potential hazards to human health and the environment introduced by pollutant emissions. The United Nations Sustainable Development Goals call for, among other objectives, responsible consumption and production by decoupling environmental resource use and environmental impacts from economic growth and human well-being. Life-cycle assessment and risk assessment are both analytical system approaches that allow scientists and other decision makers to address these issues and objectives according to the current understanding of environmental mechanisms. This book is the first attempt to illustrate the existing interfaces between life-cycle assessment and risk assessment and to indicate options for further integration of both tools. The second edition: Focuses on sustainability Considers new developments in life-cycle assessment and environmental risk assessment over the last ten years at the international level Introduces broader concepts and discussions on integrative versus the complementary use of life-cycle and risk assessments Extends the scope of integrated life-cycle and risk assessments to critical raw materials Includes more case studies and discusses engineered nanomaterials Featuring contributions from leading experts, *Integrated*

*Life-Cycle and Risk Assessment for Industrial Processes and Products* is a great reference for graduate students and professionals in environmental management and intends to catalyze communication between life-cycle assessment and risk assessment experts and scientists in academia, industry, and governmental agencies. The practical format of the book—illustrated with flowcharts, examples, exercises, and concrete applications—makes it a useful manual for analyzing situations and making decisions.

*Environmental Biology for Engineers and Scientists* Apr 13 2021 The growth of the environmental sciences has greatly expanded the scope of biological disciplines today's engineers have to deal with. Yet, despite its fundamental importance, the full breadth of biology has been given short shrift in most environmental engineering and science courses. Filling this gap in the professional literature, *Environmental Biology for Engineers and Scientists* introduces students of chemistry, physics, geology, and environmental engineering to a broad range of biological concepts they may not otherwise be exposed to in their training. Based on a graduate-level course designed to teach engineers to be literate in biological concepts and terminology, the text covers a wide range of biology without making it tedious for non-biology majors. Teaching aids include: \* Notes, problems, and solutions \* Problem sets at the end of each chapter \* PowerPoints(r) of many figures A valuable addition to any civil engineering and environmental studies curriculum, this book also serves as an important professional reference for practicing environmental professionals who need to understand the biological impacts of pollution. [Air Pollution](#) Nov 28 2019

*Water Purification and Management* Feb 09 2021 One of the major challenges for many Mediterranean and other countries is finding viable solutions to tackle water shortage. Some of the major water quality constraints derive from the high salinity of groundwater and from pollution sources such as: untreated domestic sewage, fertilizers and pesticides from irrigation drainage, industrial effluents, and solid waste disposal. Wastewater treatment processes involving physico-chemical and biological

treatment, chemical oxidation, membrane technologies, along with methods of solids concentration and disposal are of special relevance in dealing with these problems. This volume contains selected lectures presented at the NATO ADVANCED TRAINING COURSE held in Oviedo (November 15-21, 2009) and sponsored by the NATO Science for Peace and Security (SPS) Programme. They cover a variety of topics from wastewater treatment methods to cleaner production strategies, as a careful management of water resources is the basis for sustainable development and to avoid potential security threats. The reader will benefit from a general view of some of the operations involved in wastewater treatment and solid concentration and disposal methods. A proper water reuse and recycling, together with efficient solid disposal, would contribute to a better use of the resources and a sustainable economic growth, particularly in many arid lands of the world.

**Applied Hydrogeology** Jun 23 2019 There is a continued demand for well-trained and competent hydrogeologists, especially in the environmental sector. For decades, Fetter's *Applied Hydrogeology* has helped prepare students to excel in careers in hydrogeology or other areas of environmental science and engineering where a strong background in hydrogeology is needed. The text's long-standing tradition as a vital resource is further enhanced in the fifth edition by Kremer's added expertise. Stressing the application of mathematics to problem-solving, example problems throughout the book provide students the opportunity to gain a much deeper understanding of the material. Some important topics include the properties of aquifers, the principles of groundwater flow, water chemistry, water quality and contamination, and groundwater development and management. The addition of new case studies and end-of-chapter problems will strengthen understanding of the occurrence and movement of ground water in a variety of geological settings.

**Advanced Air and Noise Pollution Control** Sep 26 2019 Leading pollution control educators and practicing professionals describe how various combinations of different cutting-edge process systems can be arranged to solve air, noise, and thermal pollution problems. Each

chapter discusses in detail a variety of process combinations, along with technical and economic evaluations, and presents explanations of the principles behind the designs, as well as numerous variant designs useful to practicing engineers. The emphasis throughout is on developing the necessary engineering solutions from fundamental principles of chemistry, physics, and mathematics. The authors also include extensive references, cost data, design methods, guidance on the installation and operation of various air pollution control process equipment and systems, and Best Available Technologies (BAT) for air thermal and noise pollution control.

**Hazardous Wastes** Oct 27 2019 A fundamental approach to the scientific principles of hazardous waste management and engineering, with the study of both currently-generated hazardous wastes and the assessment and characterization of contaminated sites.

**Management of Hazardous Wastes** Apr 25 2022 Rapid trend of industry and high technological progress are the main sources of the accumulation of hazardous wastes. Recently, nuclear applications have been rapidly developed, and several nuclear power plants have been started to work throughout the world. The potential impact of released hazardous contaminants into the environment has received growing attention due to its serious problems to the biological systems. The book *Management of Hazardous Wastes* contains eight chapters covering two main topics of hazardous waste management and microbial bioremediation. This book will be useful to many scientists, researchers, and students in the scope of development in waste management program including sources of hazardous waste, government policies on waste generation, and treatment with particular emphasis on bioremediation technology.

**Environmental Engineering Science** Jun 27 2022 This book covers the fundamentals of environmental engineering and applications in water quality, air quality, and hazardous waste management. It begins by describing the fundamental principles that serve as the foundation of the entire field of environmental engineering. Readers are then systematically reintroduced to these fundamentals in a manner

that is tailored to the needs of environmental engineers, and that is not too closely tied to any specific application.

Hazardous Waste Management Jul 29 2022

**Waste Management Practices** Jul 25 2019 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

Chemical Containment of Waste in the

Geosphere Apr 01 2020 This text considers

chemical processes within the geosphere that may be harnessed to contain a wide range of wastes. It contains contributions from experts in waste containment technologies and covers many issues such as radioactive waste management.

*Solid and Hazardous Waste Management* Jun 03

2020 *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

**Quantitative Environmental Risk Analysis**

**for Human Health** Nov 20 2021 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 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.

*Solid Waste Engineering: A Global Perspective*

Dec 10 2020 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.

*Geoenvironmental Engineering* Mar 13 2021

Applies science and engineering principles to

the analysis, design, and implementation of technical schemes to characterize, treat, modify, and reuse/store waste and contaminated media. Includes site remediation.

### **Waste Management Practices in Developing Countries**

Jan 23 2022 This book provides insights into waste management practices in developing countries, and the application of research and innovation in finding appropriate solutions to improved waste management. The chapters have been selected with a focus on organic waste beneficiation, a significant waste stream in developing countries; the role of government and associated policy interventions; citizen behaviour in support of greater waste recycling; and the safe management of hazardous waste, particularly healthcare risk waste.

**Pollution Prevention** Mar 01 2020 "Pollution Prevention: Fundamentals and Practice provides a thorough foundation in pollution prevention concepts and methods. It fills an important role in the engineering curriculum by giving engineers in all disciplines the tools to incorporate environmental consequences in decision making in the same way that economic and safety factors are considered. The wealth of background information included makes this an ideal choice for those new to the field as well as for environmental engineering or chemical engineering majors and practitioners. Starting with an introduction to pollution prevention, the author progresses through a review of pollution and its consequences and describes the regulatory framework under which the industry must operate. Later chapters emphasize the sources of industrial pollution and how these can be minimized, the methodology for conducting life-cycle assessments and developing successful pollution prevention plans, and technological means for minimizing the use of water, energy, and reagents in manufacturing. Materials selection, process and product design, and packaging also are addressed. Throughout the text, example problems provide abundant opportunities to apply the concepts learned"-- Publisher's website.

**Metal Recovery from Industrial Waste** Aug 06 2020 This book is offered as a practical primer on the hydrometallurgy of nonferrous metal reclamation from industrial wastes, as well as a

brief discussion of pyrometallurgy, biological, and other separation processes. The objectives are to acquaint nontechnical readers with the subject as well as providing a detailed survey of current research and industrial practice to technical readers concerned with the management of industrial waste.

### **PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES**

Jul 17 2021 This textbook is targetted to undergraduate students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The application of these principles to separation processes is explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in equipment have been included as far as possible. The procedure of equipment design and sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. 'Humidification and water cooling', necessary in every process indus-try, is also described. Finally, elementary principles of 'unsteady state diffusion' and mass transfer accompanied by a chemical reaction are covered. SALIENT FEATURES : • A balanced coverage of theoretical principles and applications. • Important recent developments in mass transfer equipment and practice are included. • A large number of solved problems of varying levels of complexities showing the applications of the theory are included. • Many end-chapter exercises. • Chapter-wise multiple choice questions. • An Instructors manual for the teachers.

**Hazardous Waste Management** Sep 30 2022 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.

*Environmental Engineering FE/EIT Preparation Sample Questions and Solutions* Jan 29 2020 The standard for Environmental Engineering FE Review includes; 110 practice problems, with full solutions Set up to provide in depth analysis of likely FE exam problems This guide will get anyone ready for the FE Exam Topics covered Air Quality Engineering Environmental Science & Management Solid & Hazardous Waste Engineering Water & Wastewater Engineering Hydrologic and Hydrogeological Engineering  
**Environmental Protection Strategies for Sustainable Development** Dec 30 2019 The environment of our planet is degrading at an alarming rate because of non-sustainable urbanization, industrialization and agriculture. Unsustainable trends in relation to climate change and energy use, threats to public health, poverty and social exclusion, demographic pressure and ageing, management of natural resources, biodiversity loss, land use and transport still persist and new challenges are arising. Since these negative trends bring about a sense of urgency, short term action is required, whilst maintaining a longer term perspective. The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy-making. This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils, bioremediation of pesticides from soil and waste water, toxic metals from soil, biological

treatment of pulp and paper industry wastewater, sustainable solutions for agro processing waste management, solid waste management on climate change and human health, environmental impact of dyes and its remediation. Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples, biofilm formation by the environmental bacteria, biochemical attributes to assess soil ecosystem sustainability, application of rhizobacteria in biotechnology, role of peroxidases as a tool for the decolorization and removal of dyes and potential of biopesticides in sustainable agriculture. It offers a unique treatment of the subject, linking various protection strategies for sustainable development, describing the inter-relationships between the laboratory and field ecotoxicologist, the biotechnology consultant, environmental engineers and different international environmental regulatory and protection agencies.

**Theory and Practice of Water and Wastewater Treatment** Feb 21 2022 Provides an excellent balance between theory and applications in the ever-evolving field of water and wastewater treatment Completely updated and expanded, this is the most current and comprehensive textbook available for the areas of water and wastewater treatment, covering the broad spectrum of technologies used in practice today—ranging from commonly used standards to the latest state of the art innovations. The book begins with the fundamentals—applied water chemistry and applied microbiology—and then goes on to cover physical, chemical, and biological unit processes. Both theory and design concepts are developed systematically, combined in a unified way, and are fully supported by comprehensive, illustrative examples. Theory and Practice of Water and Wastewater Treatment, 2nd Edition: Addresses physical/chemical treatment, as well as biological treatment, of water and wastewater Includes a discussion of new technologies, such as membrane processes for water and wastewater treatment, fixed-film biotreatment, and advanced oxidation Provides detailed coverage of the fundamentals: basic applied

water chemistry and applied microbiology Fully updates chapters on analysis and constituents in water; microbiology; and disinfection Develops theory and design concepts methodically and combines them in a cohesive manner Includes a new chapter on life cycle analysis (LCA) Theory and Practice of Water and Wastewater

Treatment, 2nd Edition is an important text for undergraduate and graduate level courses in water and/or wastewater treatment in Civil, Environmental, and Chemical Engineering.

**Standard Handbook of Hazardous Waste Treatment and Disposal** Aug 25 2019

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

*Waste Management and Resource Recovery* May 27 2022

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.

Scheffer/Schachtschabel Soil Science Mar 25 2022

The soils are fundamental to our existence,

delivering water and nutrients to plants, that feed us. But they are in many ways in danger and their conservation is therefore a most important focus for science, governments and society as a whole. A team of world recognised researchers have prepared this first English edition based on the 16th European edition. • The precursors and the processes of soil development • The physical, biological and chemical properties of soils • Nutrients and Pollutants • The various soil classifications with the main focus on the World Reference Base for Soil Resources (WRB) • The most important soils and soil landscapes of the world • Soil Evaluation Techniques • Basic Principles of Soil Conservation Whoever works with soils needs this book.

**Wastewater Treatment and Reuse Theory and Design Examples, Volume 2:** Oct 08 2020

This book will present the theory involved in wastewater treatment processes, define the important design parameters involved, and provide typical values of these parameters for ready reference; and also provide numerical applications and step-by-step calculation procedures in solved examples. These examples and solutions will help enhance the readers' comprehension and deeper understanding of the basic concepts, and can be applied by plant designers to design various components of the treatment facilities. It will also examine the actual calculation steps in numerical examples, focusing on practical application of theory and principles into process and water treatment facility design.

**Introduction to Environmental Engineering**

Sep 06 2020 This comprehensive new edition tackles the multiple aspects of environmental engineering, from solid waste disposal to air and noise pollution. It places a much-needed emphasis on fundamental concepts, definitions, and problem-solving while providing updated problems and discussion questions in each chapter. *Introduction to Environmental Engineering* also includes a discussion of environmental legislation along with environmental ethics case studies and problems to present the legal framework that governs environmental engineering design.

*Physicochemical Treatment of Hazardous*

*Wastes* Aug 18 2021 This book examines the

treatability of hazardous wastes by different physicochemical treatment processes according to the Quantitative Structure and Activity Relationship (QSAR) between kinetic rate constants and molecular descriptors. The author explores how to use these models to select treatment processes according to the molecular structure of

Environmental Organic Chemistry Sep 18 2021  
Environmental Organic Chemistry focuses on environmental factors that govern the processes that determine the fate of organic chemicals in natural and engineered systems. The information discovered is then applied to quantitatively assessing the environmental behaviour of organic chemicals. Now in its 2nd edition this book takes a more holistic view on physical-chemical properties of organic compounds. It includes new topics that address aspects of gas/solid partitioning, bioaccumulation, and transformations in the atmosphere. Structures chapters into basic and sophisticated sections Contains illustrative examples, problems and case studies Examines the fundamental aspects of organic, physical and inorganic chemistry - applied to environmentally relevant problems Addresses problems and case studies in one volume

Hazardous Waste Management Nov 01 2022 \*  
Updated methods of waste disposal emphasizing site remediation and pollution prevention \*  
Includes a comprehensive treatment of how toxic compounds move in the environment, including ground water and air modeling \*  
Applicable to corporate management

**Geoenvironmental Engineering** Nov 08 2020  
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.

**Advances in Solid and Hazardous Waste Management** Dec 22 2021 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

Air Pollution Control Jan 11 2021 Writing for engineers working in the area of air pollution control systems, Cooper (U. of Central Florida)

and Alley (emeritus, Clemson U.) present a textbook describing the philosophy and procedures for systems design. The primary purpose of the text is to aid in formal design training, although general foundational information on air pollution and its control does provide the background for the former. Chapters cover process design, particulate matter, cyclones, electrostatic precipitators, fabric filters, particulate scrubbers, auxiliary equipment, properties of gases and vapors, VOC incinerators, gas adsorption and absorption, biological controls, atmospheric dispersion modeling, and indoor air quality and control. The CD-ROM contains solutions to exercises from the text. Annotation copyrighted by Book News, Inc., Portland, OR

Psychosocial Effects of Hazardous Toxic Waste Disposal on Communities Jul 05 2020

**Microbiology of Landfill Sites** May 03 2020

This book was originally published in 1990 and was the first text to consider the definitive fundamental science of landfill biotechnology. Since then, major research initiatives, particularly in the U.K. and South Africa, have resulted in considerable advancement in our knowledge of landfill microbiology. The Second Edition details this progress. Text considers the latest findings in landfill leachate treatment, co-disposal and fundamental microbiology. It brings together the expertise of the immediate complementary, but often disparate disciplines of soil science, environmental engineering, applied mathematics, and land reclamation and focuses on the common goal of the scientific design and management of landfill sites. The book also includes effective laboratory models and selected approaches.

**Hazardous Waste Management** Aug 30 2022