

Handbook Of Environment And Waste Management Volume 2 Land And Groundwater Pollution Control

Handbook of Environmental and Sustainable FinanceZero Waste HomeEnvironmental Technology HandbookThe Oxford Handbook of U.S. Environmental PolicyThe SAGE Handbook of Environment and SocietyHandbook of Solid Waste ManagementHandbook of Research on Waste Management Techniques for SustainabilityHandbook of Environmental EngineeringHandbook of Environmental Materials ManagementRoutledge Handbook of Environment and Society in AsiaSafe Management of Wastes from Health-care ActivitiesRoutledge Handbook of Food WasteWaste-Free Kitchen HandbookHandbook of Environmental Health, Volume IHandbook of Mathematics and Statistics for the EnvironmentHandbook of Environmental Management and TechnologyIndustrial Waste Treatment HandbookHandbook of RecyclingHandbook on Waste ManagementSolid Waste Processing and Resource RecoveryHandbook of Industrial and Hazardous Wastes TreatmentWaste Electrical and Electronic Equipment (WEEE) HandbookHandbook of Research on Resource Management for Pollution and Waste TreatmentHandbook of Environment and Waste ManagementHandbook of Solid Waste Management and Waste Minimization TechnologiesHandbook of Environment and Waste ManagementHandbook of Material Flow AnalysisHandbook of Research on Microbial Tools for Environmental Waste ManagementThe Handbook of Environmental RemediationHandbook of Environmental Risk Assessment and ManagementRoutledge Handbook of Environmental Policy in ChinaHandbook of Electronic Waste ManagementWasteHandbook Of Environment And Waste Management - Volume 2: Land And Groundwater Pollution ControlHandbook of Environmental EngineeringPractical Handbook of Material Flow AnalysisHandbook of Environment and Waste Management - Volume 3: Acid Rain and Greenhouse Gas Pollution ControlHandbook of Environmental AnalysisHandbook Of Environment And Waste Management: Air And Water Pollution ControlHandbook of Environmental Engineering

Handbook of Environmental and Sustainable Finance

The Handbook of Environment and Waste Management, Volume 2, Land and Groundwater Pollution Control, is a comprehensive compilation of topics that are at the forefront of many of the technical advances and practices in solid waste management and groundwater pollution control. These include biosolids management, landfill for solid waste disposal, landfill liners, beneficial reuse of waste products, municipal solid waste recovery and recycling and groundwater remediation. Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise. This handbook is an essential source of reference for professionals and researchers in the areas of solid waste management and groundwater pollution control, and as a text for advanced undergraduate and graduate

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courses in these fields.

Zero Waste Home

A comprehensive guide for both fundamentals and real-world applications of environmental engineering Written by noted experts, Handbook of Environmental Engineering offers a comprehensive guide to environmental engineers who desire to contribute to mitigating problems, such as flooding, caused by extreme weather events, protecting populations in coastal areas threatened by rising sea levels, reducing illnesses caused by polluted air, soil, and water from improperly regulated industrial and transportation activities, promoting the safety of the food supply. Contributors not only cover such timely environmental topics related to soils, water, and air, minimizing pollution created by industrial plants and processes, and managing wastewater, hazardous, solid, and other industrial wastes, but also treat such vital topics as porous pavement design, aerosol measurements, noise pollution control, and industrial waste auditing. This important handbook: Enables environmental engineers to treat problems in systematic ways Discusses climate issues in ways useful for environmental engineers Covers up-to-date measurement techniques important in environmental engineering Reviews current developments in environmental law for environmental engineers Includes information on water quality and wastewater engineering Informs environmental engineers about methods of dealing with industrial and municipal waste, including hazardous waste Designed for use by practitioners, students, and researchers, Handbook of Environmental Engineering contains the most recent information to enable a clear understanding of major environmental issues.

Environmental Technology Handbook

Sustainability is a growing area of research in ecology, economics, environmental science, business, and cultural studies. Specifically, sustainable waste disposal and management is a growing concern as both solid and liquid wastes are rapidly expanding in direct correlation with population growth and improved economic conditions across regions. The Handbook of Research on Waste Management Techniques for Sustainability explores the topic of sustainable development in an era where domestic and municipal waste is becoming a concern for both human and environmental health. Highlighting a number of topics relating to pollution, green initiatives, and waste reduction in both the public and private sector, this research-based publication is designed for use by environmental scientists, business executives, researchers, graduate-level students, and policymakers seeking the latest information on sustainability in business, medicine, agriculture, and society.

The Oxford Handbook of U.S. Environmental Policy

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In his latest book, the Handbook of Environmental Engineering, esteemed author Frank Spellman provides a practical view of pollution and its impact on the natural environment. Driven by the hope of a sustainable future, he stresses the importance of environmental law and resource sustainability, and offers a wealth of information based on real-world

The SAGE Handbook of Environment and Society

During the last few decades, China has accomplished unprecedented economic growth and has emerged as the second largest economy in the world. This 'economic miracle' has led hundreds of millions of people out of poverty, but has also come at a high cost. Environmental degradation and the impact of environmental pollution on health are nowadays issues of the greatest concern for the Chinese public and the government. The Routledge Handbook of Environmental Policy in China focuses on the environmental challenges of China's rapidly growing economy and provides a comprehensive overview of the policies developed to address the environmental crisis. Leading international scholars and practitioners examine China's environmental governance efforts from an interdisciplinary perspective. Divided into five parts, the handbook covers the following key issues: Part I: Development of Environmental Policy in China - Actors and Institutions Part II: Key issues and Strategies for Solution Part III: Policy Instruments and Enforcement Part IV: Related Policy Fields - Conflicts and Synergies Part V: China's Environmental Policy in the International Context This comprehensive handbook will be an invaluable resource to students and scholars of environmental policy and politics, development studies, Chinese studies, geography and international relations.

Handbook of Solid Waste Management

Waste: A Handbook for Management gives the broadest, most complete coverage of waste in our society. The book examines a wide range of waste streams, including: Household waste (compostable material, paper, glass, textiles, household chemicals, plastic, water, and e-waste) Industrial waste (metals, building materials, tires, medical, batteries, hazardous mining, and nuclear) Societal waste (ocean, military, and space) The future of landfills and incinerators Covering all the issues related to waste in one volume helps lead to comparisons, synergistic solutions, and a more informed society. In addition, the book offers the best ways of managing waste problems through recycling, incineration, landfill and other processes. Co-author Daniel Vallero interviewed on NBC's Today show for a segment on recycling Scientific and non-biased overviews will assist scientists, technicians, engineers, and government leaders Covers all main types of waste, including household, industrial, and societal Strong focus on management and recycling provides solutions

Handbook of Research on Waste Management Techniques for Sustainability

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Handbook of Electronic Waste Management: International Best Practices and Case Studies begin with a brief summary of the environmental challenges associated with the approaches used in international e-waste handling. The book's authors offer a detailed presentation of e-waste handling methods that also includes examples to further demonstrate how they work in the real world. This is followed by data that reveals the geographies of e-waste flows at global, national and subnational levels. Users will find this resource to be a detailed presentation of e-waste estimation methods that also addresses both the handling of e-waste and their hazardous effect on the surrounding environment. Includes case studies to illustrate the implementation of innovative e-waste treatment technologies Provides methods for designing and managing e-waste management networks in accordance with regulations, fulfilment obligations and process efficiency Reference guide for adapting traditional waste management methods and handling practices to the handling and storage of electronic waste until disposal Provides e-waste handling solutions for both urban and rural perspectives

Handbook of Environmental Engineering

The Handbook of Environment and Waste Management, Volume 1, Air and Water Pollution Control, is a comprehensive compilation of topics that are at the forefront of many technical advances and practices in air and water pollution control. These include air pollution control, water pollution control, water treatment, wastewater treatment, industrial waste treatment and small scale wastewater treatment. Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise. This handbook is an essential source of reference for professionals and researchers in the areas of air, water, and waste management, and as a text for advanced undergraduate and graduate courses in these fields.

Handbook of Environmental Materials Management

The use of financial concepts and tools to shape development is hardly new, but their recent adoption by advocates of sustainable environmental management has created opportunities for innovation in business and regulatory groups. The Handbook of Environmental and Sustainable Finance summarizes the latest trends and attitudes in environmental finance, balancing empirical research with theory and applications. It captures the evolution of environmental finance from a niche scholarly field to a mainstream subdiscipline, and it provides glimpses of future directions for research. Covering implications from the Kyoto and Paris Protocols, it presents an intellectually cohesive examination of problems, opportunities, and metrics worldwide. Introduces the latest developments in environmental economics, sustainable accounting work, and environmental/sustainable finance Explores the effects of environmental regulation on the economy and businesses Emphasizes research about the trade-environmental regulation nexus, relevant for economics and business students

Routledge Handbook of Environment and Society in Asia

Electrical and electronic waste is a growing problem as volumes are increasing fast. Rapid product innovation and replacement, especially in information and communication technologies (ICT), combined with the migration from analog to digital technologies and to flat-screen televisions and monitors has resulted in some electronic products quickly reaching the end of their life. The EU directive on waste electrical and electronic equipment (WEEE) aims to minimise WEEE by putting organizational and financial responsibility on producers and distributors for collection, treatment, recycling and recovery of WEEE. Therefore all stakeholders need to be well-informed about their WEEE responsibilities and options. While focussing on the EU, this book draws lessons for policy and practice from all over the world. Part one introduces the reader to legislation and initiatives to manage WEEE. Part two discusses technologies for the refurbishment, treatment and recycling of waste electronics. Part three focuses on electronic products that present particular challenges for recyclers. Part four explores sustainable design of electronics and supply chains. Part five discusses national and regional WEEE management schemes and part six looks at corporate WEEE management strategies. With an authoritative collection of chapters from an international team of authors, Waste electrical and electronic equipment (WEEE) handbook is designed to be used as a reference by policy-makers, producers and treatment operators in both the developed and developing world. Draws lessons for waste electrical and electronic equipment (WEEE) policy and practice from around the world Discusses legislation and initiatives to manage WEEE, including global e-waste initiatives, EU legislation relating to electronic waste, and eco-efficiency evaluation of WEEE take-back systems Sections cover technologies for refurbishment, treatment and recycling of waste, sustainable design of electronics and supply chains, national and regional waste management schemes, and corporate WEEE management strategies

Safe Management of Wastes from Health-care Activities

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.

Routledge Handbook of Food Waste

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The past few years have seen the emergence of a growing, widespread desire in this country, and indeed everywhere, that positive actions be taken to restore the quality of our environment, and to protect it from the degrading effects of all forms of pollution-air, noise, solid waste, and water. Since pollution is a direct or indirect consequence of waste, if there is no waste, there can be no pollution, and the seemingly idealistic demand for "zero discharge" can be construed as a demand for zero waste. However, as long as there is waste, we can only attempt to abate the consequent pollution by converting it to a less noxious form. In those instances in which a particular type of pollution has been recognized, three major questions usually arise: 1, How serious is the pollution? 2, Is the technology to abate it available? and 3, Do the costs of abatement justify the degree of abatement achieved? The principal intention of this series of books is to help the reader to formulate answers to the last two of the above three questions. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major factor contributing to the success of environmental engineering, and in large measure has accounted for the establishing of a "methodology of pollution control."

Waste-Free Kitchen Handbook

The Handbook of Environment and Waste Management, Volume 1, Air and Water Pollution Control, is a comprehensive compilation of topics that are at the forefront of many technical advances and practices in air and water pollution control. These include air pollution control, water pollution control, water treatment, wastewater treatment, industrial waste treatment and small scale wastewater treatment. Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise. This handbook is an essential source of reference for professionals and researchers in the areas of air, water, and waste management, and as a text for advanced undergraduate and graduate courses in these fields.

Handbook of Environmental Health, Volume II

The Handbook of Environmental Health-Pollutant Interactions in Air, Water, and Soil includes Nine Chapters on a variety of topics basically following a standard chapter outline where applicable with the exception of Chapters 8 and 9. The outline is as follows: 1. Background and status 2. Scientific, technological and general information 3. Statement of

Handbook of Mathematics and Statistics for the Environment

Industrial Waste Treatment Handbook provides the most reliable methodology for identifying which waste types are produced from particular industrial processes and how they can be treated. There is a thorough explanation of the fundamental mechanisms by which pollutants become dissolved or become suspended in water or air. Building on this

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knowledge, the reader will learn how different treatment processes work, how they can be optimized, and the most efficient method for selecting candidate treatment processes. Utilizing the most up-to-date examples from recent work at one of the leading environmental and science consulting firms, this book also illustrates approaches to solve various environmental quality problems and the step-by-step design of facilities. Practical applications to assist with the selection of appropriate treatment technology for target pollutants Includes case studies based on current work by experts in waste treatment, disposal, management, environmental law and data management Provides glossary and table of acronyms for easy reference

Handbook of Environmental Management and Technology

At the heart of environmental protection is risk assessment: the likelihood of pollution from accidents; the likelihood of problems from normal and abnormal operation of industrial processes; the likely impacts associated with new synthetic chemicals; and so on. Currently, risk assessment has been very much in the news--the risks from BSE and E. coli, and the public perception of risks from nuclear waste, etc. This new publication explains how scientific methodologies are used to assess risk from human activities and the resultant objects and wastes, on people and the environment. Understanding such risks supplies crucial information--to frame legislation, manage major habitats, businesses and industries, and create development programmes. Unique in combining the science of risk assessment with the development of management strategies. Covers science and social science (politics, economics, psychology) aspects. Very timely - risk assessment lies at the heart of decisionmaking in various topical environmental questions (BSE, Brent Spar, nuclear waste).

Industrial Waste Treatment Handbook

"A monumental and timely contribution to scholarship on society and environments. The handbook makes it easy and compelling for anyone to learn about that scholarship in its full manifestations and as represented by some of the most highly respected researchers and thinkers in the English-speaking world. It is wide-reaching in scope and far-reaching in its implications for public and private action, a definite must for serious researchers and their libraries." - Bonnie J McCay, Rutgers University "This is the desert island book for anyone interested in the relationship between society and the environment. The editors have assembled a masterful collection of contributions on every conceivable dimension of environmental thinking in the social sciences and humanities. No library should be without it!" - Robyn Eckersley, University of Melbourne The SAGE Handbook of Environment and Society focuses on the interactions between people, societies and economies, and the state of nature and the environment. Editorially integrated but written from multi-disciplinary perspectives, it is organised in seven sections: Environmental thought: past and present Valuing the environment Knowledges and knowing Political economy of environmental change Environmental technologies Redesigning natures

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Institutions and policies for influencing the environment Key themes include: locations where the environment-society relation is most acute: where, for example, there are few natural resources or where industrialization is unregulated; the discussion of these issues at different scales: local, regional, national, and global; the cost of damage to resources; and the relation between principal actors in the environment-society nexus. Aimed at an international audience of academics, research students, researchers, practitioners and policy makers, The SAGE Handbook of Environment and Society presents readers in social science and natural science with a manual of the past, present and future of environment-society links.

Handbook of Recycling

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

Handbook on Waste Management

Prior to the Nixon administration, environmental policy in the United States was rudimentary at best. Since then, it has evolved into one of the primary concerns of governmental policy from the federal to the local level. As scientific expertise on the environment rapidly developed, Americans became more aware of the growing environmental crisis that surrounded them. Practical solutions for mitigating various aspects of the crisis - air pollution, water pollution, chemical waste dumping, strip mining, and later global warming - became politically popular, and the government responded by gradually erecting a vast regulatory apparatus to address the issue. Today, politicians regard environmental policy as one of the most pressing issues they face. The Obama administration has identified the renewable energy sector as a key driver of economic growth, and Congress is in the process of passing a bill to reduce global warming that will be one of the most important environmental policy acts in decades. The Oxford Handbook of U.S. Environmental Policy will be a state-of-the-art work on all aspects of environmental policy in America. Over the past half century, America has been the world's leading emitter of global warming gases. However, environmental policy is not simply a national issue. It is a global issue, and the explosive growth of Asian countries like China and India mean that policy will have to be coordinated at the international level. The book will therefore focus not only on the U.S., but on the increasing importance of global policies and issues on American regulatory efforts. This is a topic that will only grow in importance in the coming years, and this will serve as an authoritative guide to any scholar interested in the issue.

Solid Waste Processing and Resource Recovery

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Handbook of Industrial and Hazardous Wastes Treatment

In this second edition of a bestseller, authors Paul H. Brunner and Helmut Rechberger guide professional newcomers as well as experienced engineers and scientists towards mastering the art of material flow analysis (MFA) from the very beginning to an advanced state of material balances of complex systems. Handbook of Material Flow Analysis: For Environmental, Resource, and Waste Engineers, Second Edition serves as a concise and reproducible methodology as well as a basis for analysis, assessment and improvement of anthropogenic systems through an approach that is helpfully uniform and standardized. The methodology featured in this book is a vital resource for generating new data, fostering understanding, and increasing knowledge to benefit the growing MFA community working in the fields of industrial ecology, resource management, waste management, and environmental protection. This new second edition takes into account all new developments and readers will profit from a new exploration of STAN software, newly added citations, and thoroughly described case studies that reveal the potential of MFA to solve industrial ecology challenges.

Waste Electrical and Electronic Equipment (WEEE) Handbook

Nowhere is the connection between society and the environment more evident and potentially more harmful for the future of the world than in Asia. In recent decades, rapid development of Asian countries with very large populations has led to an unprecedented increase in environmental problems such as air and water pollution, solid and hazardous wastes, deforestation, depletion of natural resources and extinction of native species. This handbook provides a comprehensive survey of the cultural, social and policy contexts of environmental change across East Asia. The team of international experts critically examine a wide range of environmental problems related to energy, climate change, air, land, water, fisheries, forests and wildlife. The editors conclude that, with nearly half of the human population of the planet, and several rapidly growing economies, most notably China, Asian societies will determine much of the future of human impacts on the regional and global environments. As climate change-related threats to society increase, the book strongly argues for increased environmental consciousness and action in Asian societies. This handbook is a very valuable companion for

students, scholars, policy makers and researchers working on environmental issues in Asia.

Handbook of Research on Resource Management for Pollution and Waste Treatment

Environmental remediation technologies to control or prevent pollution from hazardous waste material is a growing research area in academia and industry, and is a matter of utmost concern to public health, to improve ecology and to facilitate the redevelopment of a contaminated site. Recently, in situ and ex situ remediation technologies have been developed to rectify the contaminated sites, utilizing various tools and devices through physical, chemical, biological, electrical, and thermal processes to restrain, remove, extract, and immobilize mechanisms to minimize the contamination effects. This handbook brings altogether classical and emerging techniques for hazardous wastes, municipal solid wastes and contaminated water sites, combining chemical, biological and engineering control methods to provide a one-stop reference. This handbook presents a comprehensive and thorough description of several remediation techniques for contaminated sites resulting from both natural processes and anthropogenic activities. Providing critical insights into a range of treatments from chemical oxidation, thermal treatment, air sparging, electrokinetic remediation, stabilization/solidification, permeable reactive barriers, thermal desorption and incineration, phytoremediation, biostimulation and bioaugmentation, bioventing and biosparging through ultrasound-assisted remediation methods, electrochemical remediation methods, and nanoremediation, this handbook provides the reader an inclusive and detailed overview and then discusses future research directions. Closing chapters on green sustainable remediation, economics, health and safety issues, and environmental regulations around site remediation will make this a must-have handbook for those working in the field.

Handbook of Environment and Waste Management

Learn how to respond to the complex problems encountered in environmental management Highlighting all aspects of the spectrum of environmental control, this text provides a historical perspective on pollution problems and solutions, and offers an introduction to the specialized literature in this and related areas. It includes: Introduction to the issues Air pollution management issues Water pollution management issues Solid and radioactive waste management issues Hazardous waste management issues Pollution prevention Additional environmental concerns and management considerations New technologies and approaches Risk-related topics Recent developments Appendices

Handbook of Solid Waste Management and Waste Minimization Technologies

Part inspirational story of how the author transformed her family's life for the better by reducing their waste to an

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astounding 1 liter per year; part practical guide that gives readers tools & tips to diminish their footprint & simplify their lives. Original.

Handbook of Environment and Waste Management

This comprehensive handbook represents a definitive state of the current art and science of food waste from multiple perspectives. The issue of food waste has emerged in recent years as a major global problem. Recent research has enabled greater understanding and measurement of loss and waste throughout food supply chains, shedding light on contributing factors and practical solutions. This book includes perspectives and disciplines ranging from agriculture, food science, industrial ecology, history, economics, consumer behaviour, geography, theology, planning, sociology, and environmental policy among others. The Routledge Handbook of Food Waste addresses new and ongoing debates around systemic causes and solutions, including behaviour change, social innovation, new technologies, spirituality, redistribution, animal feed, and activism. The chapters describe and evaluate country case studies, waste management, treatment, prevention, and reduction approaches, and compares research methodologies for better understanding food wastage. This book is essential reading for the growing number of food waste scholars, practitioners, and policy makers interested in researching, theorising, debating, and solving the multifaceted phenomenon of food waste.

Handbook of Material Flow Analysis

Historically, the development of civilization has upset much of the earth's ecosystem leading to air, land, and water pollution. The author defines pollution as the introduction of a foreign substance into an ecosystem via air, land or water. This book delves into issues that effect the everyday lives of people who come in contact with these hazards. By examining these issues, this body of work aims to stimulate debate and offer solutions to the ever-growing threat to the environment and humanity. Includes problems with each chapter, Explores issues such as control of gaseous emissions, waste recycling and waste disposal, Explains physical and thermal methods of waste management, Provides definitions and resources for future reference, Discusses the history of environmental technology.

Handbook of Research on Microbial Tools for Environmental Waste Management

Despite a growing awareness of food waste, many well-intentioned home cooks lack the tools to change their habits. This handbook—packed with engaging checklists, simple recipes, practical strategies, and educational infographics—is the ultimate tool for reducing food waste. From a scientist at the Natural Resources Defense Council come these everyday techniques that call for minimal adjustments of habit, from shopping, portioning, and using a refrigerator properly to simple

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preservation methods including freezing, pickling, and cellaring. At once a good read and a go-to reference, this handy guide is chock-full of helpful facts and tips, including 20 "use-it-up" recipes and a substantial directory of common foods.

The Handbook of Environmental Remediation

Handbook of Solid Waste Management and Waste Minimization Technologies is an essential tool for plant managers, process engineers, environmental consultants, and site remediation specialists that focuses on practices for handling a broad range of industrial solid waste problems. In addition to equipment and process options, the author presents information on waste minimization practices that can be used in conjunction with or can provide alternatives to equipment and process investments. Environmental cost accounting measures and energy-efficient technologies are provided. Valuable information for those concerned with meeting government regulations and with the economic considerations (such as fines for violations and cost-effective methods) is presented in a practical manner. Included in the text are sidebar discussions, questions for thinking and discussion, recommended resources for the reader (including Web sites), and a comprehensive glossary. Two companion books by Cheremisnoff are available: Handbook of Water and Wastewater Treatment Technologies, and Handbook of Air Pollution Control Technologies. Covers leading edge technology and standard equipment for managing industrial solid waste problems Valuable in meeting government regulations Presents in-depth analysis of the financial impact of alternative technologies available

Handbook of Environmental Risk Assessment and Management

Readership will be broad including academic economists researching waste issues and researchers specializing in waste management and more widely in environmental policy, behavioral economics, and public economics. International policymakers engaged in

Routledge Handbook of Environmental Policy in China

The remediation of environmental pollutants has become a relevant topic within the field of waste management. Advances in biological approaches are a potential tool for contamination and pollution control. The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes. Featuring coverage on a broad range of topics such as biodegradation, microbial dehalogenation, and pollution controlling treatments, this book is geared towards environmental scientists, biologists, policy makers, graduate students, and scholars seeking current research on environmental engineering and green technologies.

Handbook of Electronic Waste Management

The Handbook will cover all aspects of environmental analysis and will examine the emergence of many new classes of pollutants in recent years. It will provide information on an array of topics from instrumentation, analytical techniques, and sample preparations to statistical calculations, chemical structures, and equations. It will present the tools and techniques required to measure a wide range of toxic pollutants in our environment. It will be fully revised throughout, and will add four new chapters (Microbial Analysis, Chlorophyll, Chlorine, Chloramines and Chlorine Dioxide, and Derivatization Reactions in Environmental Analysis).

Waste

It is necessary to understand the extent of pollution in the environment in terms of the air, water, and soil in order for both humans and animals to live healthier lives. Poor waste treatment or pollution monitoring can lead to massive environmental issues, such as diminishing valuable resources, and cause a significant negative impact on society. Solutions, such as reuse of waste and sustainable waste management, must be explored to prevent these adverse effects. The Handbook of Research on Resource Management for Pollution and Waste Treatment is a collection of innovative research that examines waste and pollution treatment methods that can be adopted at local and international levels and examines appropriate resource management strategies for environmentally related issues. Featuring coverage on a wide range of topics such as soil washing, bioremediation, and runoff handling, this book is ideally designed for environmentalists, engineers, waste management professionals, natural resource regulators, environmental policymakers, scientists, academicians, researchers, and students seeking current research on viable resource management methods for the regeneration of their immediate environment.

Handbook Of Environment And Waste Management - Volume 2: Land And Groundwater Pollution Control

Winner of the International Solid Waste Association's 2014 Publication Award, Handbook of Recycling is an authoritative review of the current state-of-the-art of recycling, reuse and reclamation processes commonly implemented today and how they interact with one another. The book addresses several material flows, including iron, steel, aluminum and other metals, pulp and paper, plastics, glass, construction materials, industrial by-products, and more. It also details various recycling technologies as well as recovery and collection techniques. To completely round out the picture of recycling, the book considers policy and economic implications, including the impact of recycling on energy use, sustainable development, and the environment. With contemporary recycling literature scattered across disparate, unconnected

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articles, this book is a crucial aid to students and researchers in a range of disciplines, from materials and environmental science to public policy studies. Portrays recent and emerging technologies in metal recycling, by-product utilization and management of post-consumer waste Uses life cycle analysis to show how to reclaim valuable resources from mineral and metallurgical wastes Uses examples from current professional and industrial practice, with policy and economic implications

Handbook of Environmental Engineering

The first-ever book on this subject establishes a rigid, transparent and useful methodology for investigating the material metabolism of anthropogenic systems. Using Material Flow Analysis (MFA), the main sources, flows, stocks, and emissions of man-made and natural materials can be determined. By demonstrating the application of MFA, this book reveals how resources can be conserved and the environment protected within complex systems. The fourteen case studies presented exemplify the potential for MFA to contribute to sustainable materials management. Exercises throughout the book deepen comprehension and expertise. The authors have had success in applying MFA to various fields, and now promote the use of MFA so that future engineers and planners have a common method for solving resource-oriented problems.

Practical Handbook of Material Flow Analysis

This is the second edition of the WHO handbook on the safe, sustainable and affordable management of health-care waste--commonly known as "the Blue Book". The original Blue Book was a comprehensive publication used widely in health-care centers and government agencies to assist in the adoption of national guidance. It also provided support to committed medical directors and managers to make improvements and presented practical information on waste-management techniques for medical staff and waste workers. It has been more than ten years since the first edition of the Blue Book. During the intervening period, the requirements on generators of health-care wastes have evolved and new methods have become available. Consequently, WHO recognized that it was an appropriate time to update the original text. The purpose of the second edition is to expand and update the practical information in the original Blue Book. The new Blue Book is designed to continue to be a source of impartial health-care information and guidance on safe waste-management practices. The editors' intention has been to keep the best of the original publication and supplement it with the latest relevant information. The audience for the Blue Book has expanded. Initially, the publication was intended for those directly involved in the creation and handling of health-care wastes: medical staff, health-care facility directors, ancillary health workers, infection-control officers and waste workers. This is no longer the situation. A wider range of people and organizations now have an active interest in the safe management of health-care wastes: regulators, policy-makers, development organizations, voluntary groups, environmental bodies, environmental health practitioners, advisers, researchers and students. They should also find the new Blue Book of benefit to their activities. Chapters 2 and 3 explain

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the various types of waste produced from health-care facilities, their typical characteristics and the hazards these wastes pose to patients, staff and the general environment. Chapters 4 and 5 introduce the guiding regulatory principles for developing local or national approaches to tackling health-care waste management and transposing these into practical plans for regions and individual health-care facilities. Specific methods and technologies are described for waste minimization, segregation and treatment of health-care wastes in Chapters 6, 7 and 8. These chapters introduce the basic features of each technology and the operational and environmental characteristics required to be achieved, followed by information on the potential advantages and disadvantages of each system. To reflect concerns about the difficulties of handling health-care wastewaters, Chapter 9 is an expanded chapter with new guidance on the various sources of wastewater and wastewater treatment options for places not connected to central sewerage systems. Further chapters address issues on economics (Chapter 10), occupational safety (Chapter 11), hygiene and infection control (Chapter 12), and staff training and public awareness (Chapter 13). A wider range of information has been incorporated into this edition of the Blue Book, with the addition of two new chapters on health-care waste management in emergencies (Chapter 14) and an overview of the emerging issues of pandemics, drug-resistant pathogens, climate change and technology advances in medical techniques that will have to be accommodated by health-care waste systems in the future (Chapter 15).

Handbook of Environment and Waste Management - Volume 3: Acid Rain and Greenhouse Gas Pollution Control

This reference work analyzes and assesses global environmental management techniques for environmental materials with a focus on their performance and economic benefits, proposing eco-friendly solutions and designating policies that will sustain the environment for future generations. It addresses management of environmental materials as not only a complex anthropogenic problem, but also as an expensive problem that needs to be managed sustainably. Simultaneously, it considers the environmental and economic benefits involved in the high levels of investment and operation costs required to develop effective materials collection and management systems in modern society.

Handbook of Environmental Analysis

A thorough revision of the previous "Environmental Engineer's Mathematics Handbook," this book offers readers an unusual approach to presenting environmental math concepts, emphasizing the relationship between the principles in natural processes and environmental processes. It integrates the fundamental math operations performed by environmental pr

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