Hazardous Waste Solutions

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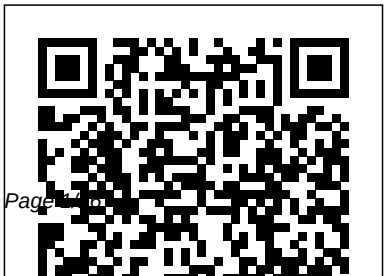

Wastes: Solutions, Treatments and Opportunities III Routledge

Every practicing environmental engineer should already have a firm grasp on the basics of hazardous waste site remediation-the key to confronting a site problem, and devising an effective solution. Since their original introduction to remediation, technology has kept moving ahead with new ideas and procedures. Fundamentals of Hazardous Waste Site Remediation gives environmental professionals immediate access to the basics of the trade, along with information about recent advancements. This comprehensive overview examines the basics of such areas as hazardous materials chemistry, hydrogeology, reaction engineering, and clean-up level development. A chapter on Cost Estimating will be of particular interest to specialists, in light of recent concerns about the increased costs of remediation. After reading each chapter, test your new knowledge with the review problems. As a refresher guide for career environmental engineers, or a helpful tool to newcomers in the field, Fundamentals of Hazardous Waste Site Remediation is a valuable resource for longtime professionals and newcomers alike.

Hazardous Material (HAZMAT) Life Cycle Management CRC Press

Hazardous waste management is a complex, interdisciplinary field that continues to grow and change as global conditions change. Mastering this evolving and multifaceted field of study requires knowledge of the sources and generation of hazardous wastes, the scientific and engineering principles necessary to eliminate the threats they pose to people and the environment, the laws regulating their disposal, and the best or most cost-effective methods for dealing with them. Written for students with some background in engineering, this comprehensive, highly acclaimed text does not only provide detailed instructions on how to solve hazardous waste problems but also guides students to think

about ways to approach these problems. Each richly detailed, self-contained chapter ends with a set of discussion topics and problems. Case studies, with equations and design examples, are provided throughout the book to give students the chance to evaluate the effectiveness of different treatment and containment technologies.

Environmental Aspects of Chemical Use in Printing Operations Pearson Education

MDI and TDI are polymer building blocks with a wide range of applications in industry. Both are used in large quantities and can be found in a wide variety of industries and applications. As their use will often involve large numbers of workers they are also subject to stringent health and safety regulations. This book covers all the important topics concerning MDI and TDI and provides comprehensive coverage on the health and environmental science associated with these. Considering the risk management of both substances this is the first book to offer comprehensive discussion of health and environmental issues and includes * insights from academic, regulatory, and industrial experts * numerous photographs, spectra, tables, and graphs * additional information on physical properties and analysis * Considers the risk management of these two diisocyanates Addressing their use throughout industry this title presents an essential source of information for occupational physicians, industrial hygiene professionals, polyurethane producers, environmental scientists, chemical analysts and regulators.

Hazardous Laboratory Chemicals Disposal Guide CRC Press Characterization and Treatment of Textile Wastewater covers fundamental knowledge of characterization of textile wastewater and adsorbents; naturally prepared adsorption and coagulation process for removal of COD, BOD and color. This book is intended for everyone actively working on the environment, especially for researchers in textile wastewater, as the problem of disposal of textile influent is worldwide. Potential technical environmental persons like engineers, project managers, consultants, and water analysts will find this book immediately useful for fine-tuning performance and reliability. This book will also be of interest to individuals who want effective knowledge of wastewater, adsorption and coagulation. - Includes definitions of pollutions, sources of wastewater in textile wastewater, various treatment methods, remedial measures and effect of waste - Examines research carried out and in progress worldwide by different researchers - Covers sampling procedures and determination of various parameters of textile wastewater

Hazardous Waste Site Remediation Elsevier It is well known that fluorescent light bulbs and consumer appliances such as televisions, computers, and monitors contain mercury, dangerous chemicals, and other harmful

components. The existing literature on hazardous materials addresses the risks attached to specific materials and emphasizes compliance and personal protective equipment (PPE)—but not the life cycle management of the materials that represent the hazards. A logistics treatment of the subject is needed to understand the underlying supply chain management principles and apply solutions to reduce overall use of hazardous materials. Hazardous Material (HAZMAT) Life Cycle Management: Corporate, Community and Organizational Planning and Preparedness is organized into two thematic sections. Section I defines and classifies hazardous materials and covers the U.S. regulatory framework and standards governing the transport and use of such materials. Section II examines institutional and organizational program elements and provides guidelines for developing these programs to reduce liability and risk while lowering point-source pollution and total hazardous waste production. The logistics approach to hazardous materials yields exponential benefits in costs and the reduction or elimination of such materials. It limits organizational liability and, at the same time, reduces the costs associated with hazardous waste management and disposal. This book serves as an integrative reference offering a better understanding of hazardous materials use, life cycle management, consumption, and waste reduction at a holistic, strategic level.

Biological Treatment of Hazardous Wastes

World Health Organization

Regional development is a broad term but can be seen as a general effort to reduce regional disparities by supporting (employment and

wealth-generating) economic activities in regions. In the past, regional development policy tended to try to achieve these objectives by means of large-scale infrastructure development and by attracting inward investment ” (OECD, 2014).A territorial and regional approach to development is crucial in addressing regional challenges, regional economic competitiveness, and reducing socio-economic discrepancies. This book provides a forum to articulate and discuss Africa ’ s regional development issues in view of the rising opportunities within the African region. This volume contains 14 chapters and is organized in four sections: Introduction; Industry, Trade and Investment in Africa; Agricultural Services and the Water-energy-food Nexus in Africa; and Environmental and Cultural Dimensions to Africa ’ s Regional Development.

Industrial Environmental Chemistry John Wiley & Sons

Those who remember with outrage the toxic waste nightmares at Love Canal and Times Beach might think nothing of taking their shirts to the neighborhood dry cleaners. But laundries, car maintenance shops, printing and ceramics studios, and other small businesses create by-products as deadly to human health and the environment as those that grabbed national headlines in the 1970s and 1980s. Aided by a regulatory system that winks at small polluters, many of these firms simply toss toxins down the drain.Hazardous Waste From Small Quantity Generators goes straight to the industry and government experts to assess the damage and prescribe

solutions.

Innovative Hazardous Waste Treatment Technologies Waveland Press

With detailed photos and schematic system diagrams, the Hazardous and Radioactive Waste Treatment Technologies Handbook provides the latest information on current technologies in the market. Intended as a reference for scientists, engineers, and engineering students, it covers waste-related thermal and non-thermal technologies, separation techniques, and stabilization technologies. It provides an overview of recent waste technologies, for both hazardous chemical wastes and radioactive wastes. By implementing the techniques presented in this book, readers will be able to decide which appropriate technology to use and how to design the equipment for their particular needs.

Sustainable Solutions for Environmental Pollution, Volume 1 CRC Press

Hazardous waste in the environment is one of the most difficult challenges facing our society. The purpose of this book is to provide a background of the many aspects of hazardous waste, from its sources to its consequences, focusing on the risks posed to human health and the environment. It explains the legislation and regulations surrounding hazardous waste; however, the scope of the book is much broader, discussing agents that are released into the environment that might not be classified as hazardous waste under the regulatory system, but nonetheless pose substantial hazards to human health and the environment. It provides a background of some of the major generators of hazardous wastes, explains the pathways by which humans and wildlife are exposed, and includes discussion of the adverse health effects linked to

these pollutants. It provides numerous case studies of hazardous waste mismanagement that have led to disastrous consequences, and highlights the deficiencies in science and regulation that have allowed the public to be subjected to myriad potentially hazardous agents. Finally, it provides a discussion of measures that will need to be taken to control society's hazardous waste problem. This book was designed to appeal to a wide range of audiences, including students, professionals, and general readers interested in the topic. - Provides information about sources of and health risks posed by hazardous waste - Explains the legislation and regulations surrounding hazardous waste - Includes numerous case studies of mismanagement, highlights deficiencies in science and regulation and discusses measures to tackle society's hazardous waste problems

RCRA in Focus Springer Science & Business Media

This volume updates and combines two National Academy Press bestsellers--Prudent Practices for Handling Hazardous Chemicals in Laboratories and Prudent Practices for Disposal of Chemicals from Laboratories--which have served for more than a decade as leading sources of chemical safety guidelines for the laboratory. Developed by experts from academia and industry, with specialties in such areas as chemical sciences, pollution prevention, and laboratory safety, Prudent Practices for Safety in Laboratories provides step-by-step planning procedures for handling, storage, and disposal of chemicals. The volume explores the current culture of laboratory safety and provides an updated guide to federal regulations. Organized around a recommended workflow protocol for experiments, the book offers prudent practices designed to promote safety and it includes practical information on assessing hazards, managing chemicals, disposing of wastes, and more. Prudent Practices for Safety in Laboratories is essential reading for people working with laboratory chemicals: research chemists,

technicians, safety officers, chemistry educators, and students.

Hazardous and Radioactive Waste Treatment Technologies Handbook Elsevier

Wastes: Solutions, Treatments and Opportunities III contains selected papers presented at the 5th edition of the International Conference Wastes: Solutions, Treatments and Opportunities, that took place on 3-6 September 2019, in Costa da Caparica, Portugal. The Wastes conference, which takes place biennially, is a prime forum for sharing innovation, technological development and sustainable solutions for the waste management and recycling sectors around the world, counting with the participation of experts from academia and industry. The papers included in this book cover a wide range of topics, including: Wastes as construction materials; Wastes as fuels; Waste treatment technologies; MSW management; Recycling of wastes and materials recovery; Environmental, economic and social aspects in waste management; Life cycle assessment; Circular economy and wastes refineries; Logistics, policies, regulatory constraints and markets in waste management.

Solid and Hazardous Waste Services: An Examination of U.S. and Foreign Markets, Inv. 332-455 BoD – Books on Demand

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.

Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities John Wiley & Sons

A perennial bestseller, this third edition includes individual entries for over 300 compounds. The extensive list of references has been updated and

includes entries for 15 pesticides commonly used in greenhouses. Emphasis is placed on disposal methods that turn hazardous waste material into non-toxic products. These methods fall into several categories, including acid/base neutralization, oxidation or reduction, and precipitation of toxic ions as insoluble solids. The text also provides data on hazardous reactions of chemicals, assisting laboratory managers in developing a plan of action for emergencies such as the spill of any of the chemicals listed.

Municipal Solid Wastes National Academies Press

Low Carbon Stabilization and Solidification of Hazardous Wastes details sustainable and low-carbon treatments for addressing environmental pollution problems, critically reviewing low-carbon stabilization/solidification technologies. This book presents the latest state-of-the-art knowledge of low-carbon stabilization/solidification technologies to provide cost-effective sustainable solutions for real-life environmental problems related to hazardous wastes including contaminated sediments. As stabilization/solidification is one of the most widely used waste remediation methods for its versatility, fast implementation and final treatment of hazardous waste treatment, it is imperative that those working in this field follow the most recent developments. Low Carbon Stabilization and Solidification of Hazardous Wastes is a necessary read for academics, postgraduates, researchers and engineers in the field of environmental science and engineering, waste

management, and soil science, who need to keep up to date with the most recent advances in low-carbon technologies. This audience will develop a better understanding of these low-carbon mechanisms and advanced characterization technologies, fostering the future development of low-carbon technologies and the actualization of green and sustainable remediation. Focuses on stabilization/solidification for environmental remediation, as one of the most widely used environmental remediation technologies in field-scale applications Details the most advanced and up-to-date low-carbon sustainable technologies necessary to guide future research and sustainable development Provides comprehensive coverage of low-carbon solutions for treating a variety of hazardous wastes as well as contaminated soil and sediment

Poisoning for Profit CRC Press

This monograph consists of manuscripts submitted by invited speakers who participated in the symposium "Industrial Environmental Chemistry: Waste Minimization in Industrial Processes and Remediation of Hazardous Waste," held March 24-26, 1992, at Texas A&M University. This meeting was the tenth annual international symposium sponsored by the Texas A&M Industry-University Cooperative Chemistry Program (IUCCP). The program was developed by an academic-industrial steering committee consisting of the co-chairmen, Professors Donald T. Sawyer and Arthur E. Martell of the Texas A&M University Chemistry Department, and

members appointed by the sponsoring companies: Bernie A. Allen, Jr., Dow Chemical USA; Kirk W. Brown, Texas A&M University; Abraham Clearfield, Texas A&M University; Greg Leyes, Monsanto Company; Jay Warner, Hoechst-Celanese Corporation; Paul M. Zakriski, BF Goodrich Company; and Emile A. Schweikert, Texas A&M University (IUCCP Coordinator). The subject of this conference reflects the interest that has developed in academic institutions and industry for technological solutions to environmental contamination by industrial wastes. Progress is most likely with strategies that minimize waste production from industrial processes. Clearly the key to the protection and preservation of the environment will be through R&D that optimizes chemical processes to minimize or eliminate waste streams. Eleven of the papers are directed to waste minimization. An additional ten papers discuss chemical and biological remediation strategies for hazardous wastes that contaminate soils, sludges, and water.

Hazardous Waste Management Wiley-Interscience

SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTION This first volume in a broad, comprehensive two-volume set, Sustainable Solutions for Environmental Pollution, concentrates on the role of waste management in solving pollution problems and the value-added products that can be created out of waste, turning a negative into an environmental and economic positive. Environmental pollution is one of the biggest problems

facing our world today, in every country, region, and even down to local landfills. Not just solving these problems, but turning waste into products, even products that can make money, is a huge game-changer in the world of environmental engineering. Finding ways to make fuel and other products from solid waste, setting a course for the production of future biorefineries, and creating a clean process for generating fuel and other products are just a few of the topics covered in the groundbreaking new first volume in the two-volume set, Sustainable Solutions for Environmental Pollution. The valorization of waste, including the creation of biofuels, turning waste cooking oil into green chemicals, providing sustainable solutions for landfills, and many other topics are also covered in this extensive treatment on the state of the art of this area in environmental engineering. This groundbreaking new volume in this forward-thinking set is the most comprehensive coverage of all of these issues, laying out the latest advances and addressing the most serious current concerns in environmental pollution. Whether for the veteran engineer or the student, this is a must-have for any library. AUDIENCE Petroleum, chemical, process, and environmental engineers, other scientists and engineers working in the area of environmental pollution, and students at the university and graduate level studying these areas

Characterization and Treatment of Textile

Wastewater Elsevier

Hazardous Waste Site Remediation is an outstanding textbook that reviews specific treatment processes, as well as pertinent basic concepts in organic geochemistry, material balance mass transfer, thermodynamics, and kinetics. Following a quantitative approach to source control, the text covers regulations, materials handling, engineering principles, soil vapor extraction, chemical extraction and soil washing, solidification and stabilization, and chemical destruction. It also explores topics in bioremediation, thermal processes, risk assessment, and waste minimization. A solutions manual is available.

Hazardous Waste from Small Quantity Generators John Wiley & Sons

Unlike most books on the subject, which offer only formulaic solutions to particular problems, Biological Treatment of Hazardous Wastes provides professionals with a conceptual framework within which to develop effective treatments tailored to any hazardous waste scenario they may encounter. Written by an author team comprising twenty-five North American and European experts, the text delineates the complex factors involved in the design of successful in situ and ex situ biotreatment approaches. Offering a balanced presentation of basic principles and engineering practices, it progresses from basic microbiological, biochemical, hydrogeological, and engineering principles to the development of design methodologies and specific hazardous waste scenarios - many of them based on the numerous case studies found throughout the book.

Regional Development in Africa CRC Press

Hazardous Waste Management: An Overview of Advanced and Cost-Effective Solutions includes the latest practical knowledge and theoretical concepts for the treatment of hazardous wastes. The book covers five major themes, namely, ecological impact, waste management hierarchy, hazardous waste characteristics and regulations, hazardous wastes management, and future scope of hazardous waste management. It serves as a comprehensive and advanced reference for undergraduate students, researchers and practitioners in the field of hazardous wastes and focuses on the latest emerging research in the management of hazardous waste, the direction in which this branch is developing as well as future prospects. The book deals with all these components in-depth, however, particular attention is given to management techniques and cost-effective, economically feasible solutions for hazardous wastes released from various sources. - Comprehensively explores the impact of hazardous wastes on human health and ecosystems - Discusses toxicity across solid waste, aquatic food chain and airborne diseases - Categorically elaborates waste treatment and management procedures with current challenges - Discusses future challenges and the importance of renewing technologies

Waste Treatment and Disposal CRC Press

Wastes: Solutions, Treatments and Opportunities II contains selected papers presented at the 4th

edition of the International Conference Wastes: Solutions, Treatments and Opportunities, that took place 25-26 September 2017 at the Faculty of Engineering of the University of Porto, Porto, Portugal. The Wastes conference, which takes place biennially, is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance. The published papers focus on a wide range of topics, including: Wastes as construction materials, Wastes as fuels, Waste treatment technologies,MSW management, Recycling of wastes and materials recovery, Wastes from new materials (nanomaterials, electronics, composites, etc.), Environmental, economic and social aspects in waste management and Circular economy.