Environmental Separation of Heavy Metals

Engineering Processes

Edited by

Arup K. SenGupta

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Environmental Separation Of Heavy Metals Engineering Processes

Jiaping Paul Chen,Lawrence K. Wang,Mu-Hao S. Wang,Yung-Tse Hung,Nazih K. Shammas

Environmental Separation Of Heavy Metals Engineering Processes:

Environmental Separation of Heavy Metals Arup K. SenGupta,2001-09-26 This new book explains advanced and emerging technologies for removing heavy metals from wastestreams and contaminated sites Separation processes of this type are critical for meeting stringent regulations of priority pollutants especially arsenic mercury and lead which the text treats in depth After explaining the chemistry of heavy metals and their transport in various media the work offers a comprehensive analysis of strategies for separating metals from groundwater wastewater contaminated soils and industrial sludges Both the basics and the applications of techniques such as ion exchange specialized sorbents novel membranes advanced precipitates and electrokinetic processes are presented with a view to current use and potential for future applications such as resource reuse Information in this volume enables engineers and other investigators to adapt and select the best means to remove and in certain instances recover heavy metals *Environmental Separation of Heavy Metals* Arup K. SenGupta,2001-09-26 This new book explains advanced and emerging technologies for removing heavy metals from wastestreams and contaminated sites Separation processes of this type are critical for meeting stringent regulations of priority pollutants especially arsenic mercury and lead which the text treats in depth After explaining the chemistry of heavy metals a Ion Exchange in Environmental Processes Arup K. SenGupta,2017-08-10 Provides a comprehensive introduction to ion exchange for beginners and in depth coverage of the latest advances for those already in the field As environmental and energy related regulations have grown ion exchange has assumed a dominant role in offering solutions to many concurrent problems both in the developed and the developing world Written by an internationally acknowledged leader in ion exchange research and innovation Ion Exchange in Environmental Processes is both a comprehensive introduction to the science behind ion exchange and an expert assessment of the latest ion exchange technologies Its purpose is to provide a valuable reference and learning tool for virtually anyone working in ion exchange or interested in becoming involved in that incredibly fertile field Written for beginners as well as those already working the in the field Dr SenGupta provides stepwise coverage advancing from ion exchange fundamentals to trace ion exchange through the emerging area of hybrid ion exchange nanotechnology or polymeric inorganic ion exchangers Other topics covered include ion exchange kinetics sorption and desorption of metals and ligands solid phase and gas phase ion exchange and more Connects state of the art innovations in such a way as to help researchers and process scientists get a clear picture of how ion exchange fundamentals can lead to new applications Covers the design of selective or smart ion exchangers for targeted applications an area of increasing importance including solid and gas phase ion exchange processes Provides in depth discussion on intraparticle diffusion controlled kinetics for selective ion exchange Features a chapter devoted to exciting developments in the areas of hybrid ion exchange nanotechnology or polymeric inorganic ion exchangers Written for those just entering the field of ion exchange as well as those involved in developing the next big thing in ion exchange systems Ion Exchange in Environmental Processes is a

valuable resource for students process engineers and chemists working in an array of industries including mining microelectronics pharmaceuticals energy and wastewater treatment to name just a few In Situ Remediation Engineering Suthan S. Suthersan,Fred C. Payne,2004-12-28 In Situ Remediation Engineering provides a comprehensive guide to the design and implementation of reactive zone methods for treatment of all major classes of groundwater contamination It teaches the fundamentals that underlie development of cost effective reactive zone strategies guides the selection of cost effective remedial strategies and provides environmental engineers and scientists with tools to achieve optimal deployment of source area reactive barrier and site wide treatments It offers extensive coverage of remedial system operation discussing reagent injection strategies interpretation of process monitoring results for biological and chemical reactive zone systems and impacts of treatment processes on aquifer hydraulic characteristics *Remediation Engineering* Suthan S. Suthersan,John Horst,Matthew Schnobrich,Nicklaus Welty,Jeff McDonough,2016-11-25 This second edition of Remediation Engineering will continue to be the seminal handbook that regulators must have on hand to address any of the remediation issues they are grappling with daily The book is wide ranging but specific enough to address any environmental remediation challenge Patricia Reyes Interstate Technology Regulatory Council Washington DC USA This book offers the researcher teacher practitioner student and regulator with state of the art advances in conducting site investigations and remediation for common and emerging contaminants It is revolutionary in its approach to conducting subsurface investigation which greatly influences a successful and appropriate response in assessing and addressing environmental risk This book is a giant leap forward in understanding how contaminates behave and how to reduce risk to acceptable levels in the natural world Daniel T Rogers Amsted Industries Incorporated Chicago Illinois USA This text is a superb reference and a good tool for learning about state of the art techniques in remediation of soil and groundwater It will become a ready reference at many companies as the engineering community creates increased value from remediation efforts around the world John Waites AVX Corporation Fountain Inn South Carolina USA Remediation Engineering was first published in 1996 and quickly became the go to reference for a relatively young industry offering the first comprehensive look at the state of the science in treatment technologies of the time and the contaminants they applied to This fully updated Second Edition will capture the fundamental advancements that have taken place during the last two decades within all the subdisciplines that form the foundation of the remediation engineering platform It covers the entire spectrum of current technologies that are employed in the industry and also discusses future trends and how practitioners should anticipate and adapt to those needs Features Shares the latest paradigms in remediation design approach and contaminant hydrogeology Presents the landscape of new and emerging contaminants Details the current state of the practice for both conventional technologies such as sparging and venting Examines newer technologies such as dynamic groundwater recirculation and injection based remedies to address both organic and inorganic contaminants Describes the advances in site characterization concepts such as smart

investigations and digital conceptual site models Includes all new color photographs and figures *Heavy Metal Contamination in the Environment* Veer Singh,Ashish Kumar,Vishal Mishra,Sachchida Nand Rai,2024-12-30 This reference book explores the multifaceted problem of heavy metal contamination in the environment Through its in depth analysis the book provides a thorough overview of the sources and pathways of heavy metals their persistence in ecosystems and the resulting health impacts on individuals and ecosystems The chapters explore the diverse sources of contamination including industrial activities mining agriculture and urbanization while examining the types of heavy metals found in the environment and their toxicological properties The book further reviews the profound health effects associated with heavy metal exposure such as neurological disorders developmental abnormalities carcinogenicity and organ damage Furthermore the book provides insights into risk assessment methodologies regulatory frameworks and guidelines aimed at controlling and minimizing heavy metal exposure It highlights the challenges and gaps in current regulations identifies potential areas for improvement and presents analytical techniques for heavy metal analysis and removal This book is an important source for researchers and professionals working in the fields of environmental science toxicology and public health **Ion Exchange and Solvent Extraction** Arup K. Sengupta,2017-07-12 Since the Second World War the field of ion exchange has taken a dominant role in offering solutions to many problems in the developed and developing world It has evolved to a wide array of applications including mining microelectronics drug delivery and detection food fertilizers chemical cleaning catalysis bioseparation water management environmental research and practices and energy The six chapters in this book represent diverse contributions from researchers around the globe who are making noticeable strides in the field in currently important areas Brackish water desalination Removing boron from water Sustainable approaches for synthesizing commercially important epoxide building blocks Solid phase heavy metal separation Separating concentrated ion mixtures in sorption columns Sensing toxic metals Ion Exchange and Solvent Extraction A Series of Advances Volume 22 provides a focused review of new materials and new processes that have developed and are rapidly growing It describes cutting edge research and practices in the use of ion exchange for building a cleaner sustainable world and provides thoughtful insights on what ion exchange may do for us in the future **Remediation of Heavy Metals in the Environment** Jiaping Paul Chen,Lawrence K. Wang,Mu-Hao S. Wang,Yung-Tse Hung,Nazih K. Shammas,2016-11-18 This book provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on toxic heavy metals in the environment various heavy metal decontamination technologies brownfield restoration and industrial agricultural and radioactive waste management It discusses the importance of metals such as lead chromium cadmium zinc copper nickel iron and mercury *Innovative Materials and Methods for Water Treatment* Marek Bryjak,Nalan

Kabay,Bernabe L. Rivas,Jochen Bundschuh,2016-02-17 Due to increasing demand for potable and irrigation water water suppliers have to use alternative resources They either have to regenerate wastewater or deal with contaminated surface water This book brings together the experiences of various experts in preparing of innovative materials that are selective for arsenic and chromium removal and in **Fundamentals of Water Treatment Unit Processes** David Hendricks,2010-11-09 Carefully designed to balance coverage of theoretical and practical principles Fundamentals of Water Treatment Unit Processes delineates the principles that support practice using the unit processes approach as the organizing concept The author covers principles common to any kind of water treatment for example drinking water municipal wastewater industrial water treatment industrial waste water treatment and hazardous wastes Since technologies change but principles remain constant the book identifies strands of theory rather than discusses the latest technologies giving students a clear understanding of basic principles they can take forward in their studies Reviewing the historical development of the field and highlighting key concepts for each unit process each chapter follows a general format that consists of process description history theory practice problems references and a glossary This organizational style facilitates finding sections of immediate interest without having to page through an excessive amount of material Pedagogical Features End of chapter glossaries provide a ready reference and add terms pertinent to topic but beyond the scope of the chapter Sidebars sprinkled throughout the chapters present the lore and history of a topic enlarging students perspective Example problems emphasize tradeoffs and scenarios rather than single answers and involve spreadsheets Reference material includes several appendices and a quick reference spreadsheet Solutions manual includes spreadsheets for problems Supporting material is available for download Understanding how the field arrived at its present state of the art places the technology in a more logical context and gives students a strong foundation in basic principles This book does more than build technical proficiency it adds insight and understanding to the broader aspects of water treatment unit processes

Nanotechnology in Industrial Wastewater Treatment Dr. Arup Roy,Jayanta Bhattacharya,2015-01-15 Nanotechnology in Industrial Wastewater Treatment is a state of the art reference book The book is particularly useful for wastewater technology development laboratories and organizations All professional and academic areas connected with environmental engineering nanotechnology based wastewater treatment and related product design are incorporated and provide an essentialresource The book describes the application and synthesis of Ca based and magnetic nano materials and their potential application for removal treatment of heavy metals from wastewater Nanotechnology in Industrial Wastewater Treatment discusses the rapid wastewater treatment methods using Ca based nanomaterials and magnetic nanomaterials This is an emerging area of new science and technology in wastewater treatment The main audiences for the book are water industry professionals research scholars and students in the area of Environmental Engineering and Nanotechnology Authors Dr Arup Roy Department of Mining Engineering Geo Environmental Lab Indian Institute of Technology Kharagpur India and

Professor Jayanta Bhattacharya Department of Mining Engineering Geo Environmental Lab Indian Institute of Technology Kharagpur India Control of Heavy Metals in the Environment Lawrence K. Wang,Mu-Hao Sung Wang,Yung-Tse Hung,Jiaping Paul Chen,2025-02-28 Offering broad coverage of advanced principals and applications Control of Heavy Metals in the Environment mini series provides chemical and environmental engineers with the most complete resource available on the remediation of heavy metal contaminants with an emphasis on advanced and alternative approaches It investigates a variety of environmental pollution sources and waste characteristics that require a multitude of remediation methods It then details the latest in clean tech advances including fungal bioprocesses and addresses recycling and disposal techniques as well as metals pollution from the transportation industry The authors delve into costs and effluent standards and offer several illustrative case histories to illustrate the regional and global effects of key pollution control practices Features Provides technical information for industrial and hazardous waste treatment Discusses the control treatment and management of metal emissions from motor vehicles Explores the newest methods of clean production and waste minimization Includes numerous figures tables examples and case histories *Handbook of Advanced Industrial and Hazardous Wastes Management* Lawrence K. Wang,Mu-Hao S. Wang,Yung-Tse Hung,Nazih K. Shammas,Jiaping Paul Chen,2017-10-30 This volume provides in depth coverage of environmental pollution sources waste characteristics control technologies management strategies facility innovations process alternatives costs case histories effluent standards and future trends in waste treatment processes It delineates methodologies technologies and the regional and global effects of important pollution control practices It focuses on specific industrial and manufacturing wastes and their remediation Topics include heavy metals electronics chemical and textile manufacturing **Membrane and Membrane-Based Processes for Wastewater Treatment** Maulin P. Shah,2023-03-14 The proposed book mainly sorts out emerging and burning issues faced day to day by municipal and industrial wastewater treatments It also provides a comprehensive view of recent advances in hybrid treatment technologies for wastewater treatment addresses the current limitations and challenges of applying these tools in wastewater treatment systems This book gives an insight about recent developments in membrane technology for wastewater treatment Industrial wastewater contains a large variety of compounds such as heavy metals salts and nutrients which makes its treatment challenging Thus the use of conventional water treatment methods is not always effective In this sense membrane based hybrid processes have emerged as a promising technology to treat complex industrial wastewater The present book analyses and discusses the potential of membrane based hybrid processes for the treatment of complex industrial wastewater along with the recovery of valuable compounds and water reutilization In addition recent and future trends in membrane technology are highlighted FEATURES The properties mechanisms advantages limitations and promising solutions of different types of membrane technologies are discussed The optimization of process parameters is addressed The performance of different membranes is described The potential of nanotechnology to improve the treatment

efficiency of wastewater treatment plants is presented The application of membrane and membrane based hybrid treatment technologies for wastewater treatment is covered **Advanced Sorption Process Applications** Serpil Edebali,2019-02-20 At the beginning of the twenty firstst century separation processes presented a comprehensive application of the major operations performed by various industries such as chemical food environmental and biotechnology Sorption one of the preferred separation processes because of its effectiveness at different interfaces has caught the attention of many scientists This book is aimed at gaining a general knowledge of sorption and a number of extremely important applications as well as recognizing its functions and paramount importance in chemical and biochemical plants including environmental treatment Moreover progress in the phenomenon is highlighted in this book To help provide instruction in the important sorption processes we have chosen authors who have extensive industrial and academic experience in closing the gap between theory and practice Crucial progress in the theoretical information section of sorption has been achieved mainly through the development of new techniques that examine the usage of various sorbents including nanomaterials for the removal of various pollutants We have subdivided the book into several sections one of which is focused on applications of the sorption process which presents real results of the recent studies and gives a source of up to date literature The relationship between the sorption process and isotherm and kinetics modeling is analyzed in another chapter This book will be a reference book for those who are interested in sorption techniques from various industries *The Global Arsenic Problem* Nalan Kabay,Jochen Bundschuh,Bruce Hendry,Marek Bryjak,Kazuharu Yoshizuka,Prosun Bhattacharya,Suer Anac,2010-04-26 A prevalent and increasingly important issue arsenic removal continues to be one of the most important areas of water treatment Conventional treatment plants may employ several methods for removing arsenic from water Commonly used processes include oxidation sedimentation coagulation and filtration lime treatment adsorption onto sorptiv

Bioremediation for Environmental Pollutants Inamuddin,2023-04-26 Increased industrial and agricultural activity has led to the contamination of the earth s soil and groundwater resources with hazardous chemicals The presence of heavy metals dyes fluorides dissolved solids and many other pollutants used in industry and agriculture are responsible for hazardous levels of water pollution The removal of these pollutants in water resources is challenging Bioremediation is a new technique that employs living organisms usually bacteria and fungi to remove pollutants from soil and water preferably in situ This approach is more cost effective than traditional techniques such as incineration of soils and carbon filtration of water It requires understanding how organisms consume and transform polluting chemicals survive in polluted environments and how they should be employed in the field Bioremediation for Environmental Pollutants discusses the latest research in green chemistry and practices and principles involved in quality improvement of water by remediation It covers different aspects of environmental problems and their remedies with up to date developments in the field of bioremediation of industrial environmental pollutants Volume 1 focuses on the bioremediation of heavy metals pesticides textile dyes removal

petroleum hydrocarbon microplastics and plastics This book is invaluable for researchers and scientists in environmental science environmental microbiology and waste management It also serves as a learning resource for graduate and undergraduate students in environmental science microbiology limnology freshwater ecology and microbial biotechnology

Control of Heavy Metals in the Environment, Volume 1 Lawrence K. Wang,Mu-Hao Sung Wang,Yung-Tse Hung,Jiaping Paul Chen,2025-03-21 Offering broad coverage of both basic and advanced principles and applications Control of Heavy Metals in the Environment series provides environmental and chemical engineers with the most complete resources available on the remediation of heavy metal contaminants with an emphasis on innovative approaches It investigates a variety of environmental pollution sources and waste characteristics that require a multitude of remediation methods It also details the latest in clean tech advances including flotation and filtration technologies and discusses the treatment of wastewater surface water groundwater and more It includes several case histories to illustrate the regional and global effects of key pollution control practices Features Provides technical information for industrial and hazardous waste treatment Explores the newest methods of clean production and waste minimization Includes numerous figures tables examples and case histories **Methodologies and Applications for Analytical and Physical Chemistry** A. K. Haghi,Sabu Thomas,Sukanchan Palit,Priyanka Main,2018-07-17 This volume presents an up to date review of modern materials and concepts issues and recent advances in analytical and physical chemistry Distinguished scientists and engineers from key institutions worldwide have contributed chapters that provide a deep analysis of their particular subjects The chapters discuss the composition and properties of complex materials as well as mixtures processes and the need for new and improved analytical technology **New Research on Hazardous Materials** Phillip B. Warey,2007 Hazardous waste is a waste with properties that make it dangerous or potentially harmful to human health or the environment Hazardous waste generally exhibits one or more of these characteristics ignitability corrosivity reactivity or toxicity The universe of hazardous wastes is large and diverse Hazardous wastes can be liquids solids contained gases or sludges They can be the by products of manufacturing processes or simply discarded commercial products like cleaning fluids or pesticides One major type is radioactive waste This book brings together the latest research in this diverse field

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