

Groundwater Geochemistry Fundamentals

Applications Contamination

Fundamentals and Applications of Solar Energy, Part II Electrochemically Assisted Remediation of Contaminated Soils Nanocomposites for Pollution Control Fundamentals and Applications of Solar Energy Emerging Contaminants in the Environment Separation of Heavy Metals and Other Trace Contaminants Fundamentals of Resid Upgrading Fundamental Aspects of Crystallization and Precipitation Processes Fluidization: Fundamental Studies, Solid-fluid Reactions, and Applications Ammonia Plant Safety (and Related Facilities). Environmental Monitoring Handbook Implications of the Clean Air Amendments of 1977 and of Energy Considerations for Air Pollution Control New Developments in Liquid-liquid Extractors AIChE Symposium Series AIChE Monograph Series Transmission, Distribution, and Renewable Energy Generation Power Equipment Nucleation, Growth, and Impurity Effects in Crystallization Process Engineering Problem Solving Diamond Jubilee Historical/review Volume Advances in Crystallization from Solutions Ihab H. Farag M. A. Rodrigo Chaudhery Mustansar Hussain Hemen Sarma Robert William Peters American Institute of Chemical Engineers. Meeting Daina M. Briedis American Institute of Chemical Engineers Frank R Burden Robert B. Akell American Institute of Chemical Engineers Bella H. Chudnovsky Mary Anne Farrell Epstein John Thomas Sears Larry Resen Gordon R. Youngquist Fundamentals and Applications of Solar Energy, Part II Electrochemically Assisted Remediation of Contaminated Soils Nanocomposites for Pollution Control Fundamentals and Applications of Solar Energy Emerging Contaminants in the Environment Separation of Heavy Metals and Other Trace Contaminants Fundamentals of Resid Upgrading Fundamental Aspects of Crystallization and Precipitation Processes Fluidization: Fundamental Studies, Solid-fluid Reactions, and Applications Ammonia Plant Safety (and Related Facilities). Environmental Monitoring Handbook Implications of the Clean Air Amendments of 1977 and of Energy Considerations for Air Pollution Control New Developments in Liquid-liquid Extractors AIChE Symposium Series AIChE Monograph Series Transmission, Distribution, and Renewable Energy Generation Power Equipment Nucleation, Growth, and Impurity Effects in Crystallization Process Engineering Problem Solving Diamond Jubilee Historical/review Volume Advances in Crystallization from Solutions Ihab H. Farag M. A. Rodrigo Chaudhery Mustansar Hussain Hemen Sarma Robert William Peters American Institute of Chemical Engineers. Meeting Daina M. Briedis American Institute of Chemical Engineers Frank R Burden Robert B. Akell American Institute of Chemical Engineers Bella H. Chudnovsky Mary

Anne Farrell Epstein John Thomas Sears Larry Resen Gordon R. Youngquist

this book provides an overview of the current development status of remediation technologies involving electrochemical processes which are used to clean up soils that are contaminated with different types of contaminants organics inorganics metalloids and radioactive written by internationally recognized experts it comprises 21 chapters describing the characteristics and theoretical foundations of various electrochemical applications of soil remediation the book s opening section discusses the fundamental properties and characteristics of the soil which are essential to understand the processes that can most effectively remove organic and inorganic compounds this part also focuses on the primary processes that contribute to the application of electrochemically assisted remediation hydrodynamic aspects and kinetics of contaminants in the soil it also reviews the techniques that have been developed for the treatment of contaminated soils using electrochemistry and discusses different strategies used to enhance performance the type of electrode and electrolyte and the most important operating conditions in turn the book s second part deals with practical applications of technologies related to the separation of pollutants from soil special emphasis is given to the characteristics of these technologies regarding transport of the contaminants and soil toxicity after treatment the third part is dedicated to new technologies including electrokinetic remediation and hybrid approaches for the treatment of emerging contaminants by ex situ and in situ production of strong oxidant species used for soil remediation it also discusses pre pilot scale for soil treatment and the use of solar photovoltaic panels as an energy source for powering electrochemical systems which can reduce both the investment and maintenance costs of electrochemically assisted processes

nanocomposites present outstanding mechanical properties and compatibility owing to their composite matrix and unique physical and chemical composition provided by large surface area to volume ratios and high interfacial reactivity freedom to functionalize nanocomposites with various chemical groups increases their affinity toward target pollutants which is highly desirable for the selective extraction of target analytes in complex environmental matrixes this book presents the recent progress in the field of nanocomposites and their properties fabrication methods and applications for pollution control and sensing it discusses the advances in pollution control techniques made possible because of nanocomposites and focuses on environment friendly and efficient approaches the text also covers economic toxicological and regulatory issues and research trends

emerging contaminants in the environment challenges and sustainable practices covers all aspects of emerging contaminants in the environment from basic understanding to different types of emerging contaminants and how these threaten organisms their environmental fate studies detection methods and sustainable practices of dealing with contaminants emerging

contaminant remediation is a pressing need due to the ever increasing pollution in the environment and it has gained a lot of scientific and public attention due to its high effectiveness and sustainability the discussions in the book on the bioremediation of these contaminants are covered from the perspective of proven technologies and practices through case studies and real world data one of the main benefits of this book is that it summarizes future challenges and sustainable solutions it can therefore become an effective guide to the elimination through sustainable practices of emerging contaminants at the back of these explorations on sustainable bioremediation of emerging contaminants lies the set of 17 goals articulated by the united nations in its 2030 agenda for sustainable development adopted by all its member states this book provides academics researchers students and practitioners interested in the detection and elimination of emerging contaminants from the environment with the latest advances by leading experts in emerging contaminants the field of environmental sciences covers most aspects of the most predominant emerging contaminants in the environment including in soil air and water describes the occurrence of these contaminants the problems they cause and the sustainable practices to deal with the contaminants includes data from case studies to provide real world examples of sustainable practices and emerging contaminant remediation

this handbook helps you with the most pervasive activity in environmental science taking and analyzing environmental samples from water air or soil

the revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made new sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power when exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed in the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure the book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

papers presented at the aiche diamond jubilee meeting in washington d c 1983

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