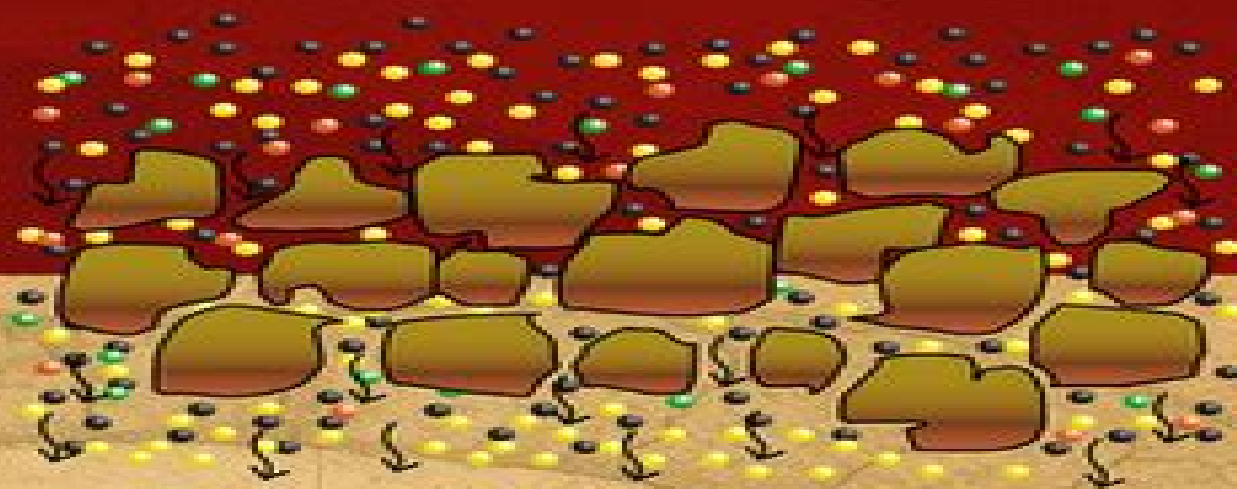
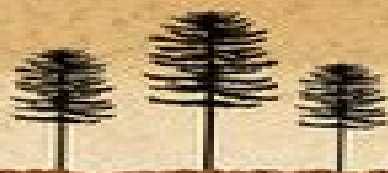


Competitive **Sorption and Transport** of Heavy Metals in Soils and Geological Media



Edited By
H. Magdi Selim



Competitive Sorption And Transport Of Heavy Metals In Soils And Geological Media

Alina Kabata-Pendias, Barbara Szeke



Competitive Sorption And Transport Of Heavy Metals In Soils And Geological Media:

Competitive Sorption and Transport of Heavy Metals in Soils and Geological Media H. Magdi Selim, 2017-03-29
Most reported incidents of soil contamination include an array of heavy metals species rather than a single ion. The various interactions in these multicomponent or multiple ion systems significantly impact the fate and transport of heavy metals and competition for sorption sites on soil matrix surfaces is a common phenomenon. Because of this, considering competitive sorption is an important part of predicting contaminant transport. *Competitive Sorption and Transport of Heavy Metals in Soils and Geological Media* gives you the information needed to understand heavy metals sorption and transport in the vadose zone and aquifers. The book brings together state-of-the-art research on the competitive sorption and mobility of single versus multiple heavy metal species. It also relates the transport mechanisms to the processes that govern sorption mechanisms. The work offers new experimental evidence on the fate of multiple heavy metals in soil columns and new field results on how multiple ions influence the mobility of metals in the soil profile under water-unsaturated flow. Emphasizing modeling approaches, the book begins with an overview of the competitive behavior of heavy metals. It then takes a closer look at various heavy metals, discussing their behavior in tropical soils, speciation and fractionation, accumulation, migration, competitive retention, and the contamination of water resources at the watershed scale. The book also presents extensive data on phosphate, a commonly used fertilizer, and its role in facilitating the release of trace elements. The final chapter looks at the effect of waterlogged conditions on arsenic and cadmium solubilization. Edited by an internationally recognized researcher and featuring expert contributors, this comprehensive work addresses the complex physical and chemical phenomena of sorption mechanisms. Presenting the latest research, it helps you to better predict the potential mobility of multiple heavy metals in soils. *Competitive Sorption and Transport of Heavy Metals in Soils and Geological Media* H. Magdi Selim, 2016-04-19
Most reported incidents of soil contamination include an array of heavy metals species rather than a single ion. The various interactions in these multicomponent or multiple ion systems significantly impact the fate and transport of heavy metals and competition for sorption sites on soil matrix surfaces is a common phenomenon. Because of this, considering competitive sorption is an important part of predicting contaminant transport. *Competitive Sorption and Transport of Heavy Metals in Soils and Geological Media* gives you the information needed to understand heavy metals sorption and transport in the vadose zone and aquifers. The book brings together state-of-the-art research on the competitive sorption and mobility of single versus multiple heavy metal species. It also relates the transport mechanisms to the processes that govern sorption mechanisms. The work offers new experimental evidence on the fate of multiple heavy metals in soil columns and new field results on how multiple ions influence the mobility of metals in the soil profile under water-unsaturated flow. Emphasizing modeling approaches, the book begins with an overview of the competitive behavior of heavy metals. It then takes a closer look at various heavy metals, discussing their behavior in tropical soils, speciation and fractionation, accumulation, migration, competitive retention, and the contamination of water resources at the watershed scale. The book also presents extensive data on phosphate, a commonly used fertilizer, and its role in facilitating the release of trace elements. The final chapter looks at the effect of waterlogged conditions on arsenic and cadmium solubilization. Edited by an internationally recognized researcher and featuring expert contributors, this comprehensive work addresses the complex physical and chemical phenomena of sorption mechanisms. Presenting the latest research, it helps you to better predict the potential mobility of multiple heavy metals in soils.

Transport & Fate of Chemicals in Soils H. Magdi Selim, 2014-09-17
During the last four decades, tremendous advances have been made towards the understanding of transport characteristics of contaminants in soils, solutes, and tracers in geological media. *Transport & Fate of Chemicals in Soils: Principles and Applications* offers a comprehensive treatment of the subject, complete with supporting examples of metals, organic chemicals, and pesticides. *Transport & Fate of Chemicals in Soils: Principles and Applications* H. Magdi Selim, 2014-09-17

Trace Elements in Waterlogged Soils and Sediments Jörg Rinklebe, Anna Sophia Knox, Michael Paller, 2016-08-19
Many wetlands around the world act as sinks for pollutants, in particular for trace elements. In comparison to terrestrial environments, wetlands are still far less studied. A collaborative effort among world experts, this book brings the current knowledge concerning trace elements in temporary waterlogged soils and sediments together. It discusses factors controlling the dynamics and release kinetics of trace elements and their

underlying biogeochemical processes It also discusses current technologies for remediating sites contaminated with trace metals and the role of bioavailability in risk assessment and regulatory decision making This book is intended for professionals around the world in disciplines related to contaminant bioavailability in aquatic organisms contaminant fate and transport remediation technologies and risk assessment of aquatic and wetland ecosystems Maritime Accidents and Environmental Pollution - The X-Press Pearl Disaster Meththika Vithanage,Ajith Priyal de Alwis,Deshai Botheju,2023-12-29 This book discusses in detail the facts and findings related to the X Press Pearl container vessel accident that occurred in May 2021 off the coast of Colombo Sri Lanka The ship was carrying a large consignment of chemicals and diverse hazardous materials that caused a disastrous and vast environmental and social catastrophe in the region Through many case studies accumulated knowledge and experiences the authors discuss the accident response risk mitigation investigation and damage assessment activities from the very onset of the accident It helps researchers and regulators understand the facts of this unique marine chemical accident and to formulate necessary future regulations as well as to develop robust safety and sustainability management systems and safety cultures Features Written by authorities who led the team involved in accident response and damage assessment Focuses on identifying plausible root causes pitfalls in accident response and weaknesses in current regulatory and management protocols Delivers in depth understanding of a unique marine chemical accident to help formulate necessary future policies and regulations related to such disasters Includes many case studies related to the accident illustrated with photos and figures that are true evidence of the disaster the response and the mitigation Explains and discusses key research findings in a streamlined manner understandable for a wide audience A valuable resource for readers in environmental management and policy creation as well as for researchers professionals academics and students involved in environmental science chemical engineering technical safety and sustainability management maritime polymer and ocean sciences Countries where maritime disasters are a concern will also find this book is an important guide for taking a responsible approach when handling similar situations in the future not least to avert such events from occurring

Management of Contaminated Site Problems, Second Edition Kofi Asante-Duah,2019-04-12 This book outlines the strategies used in the investigation characterization management and restoration and remediation for various contaminated sites It draws on real world examples from across the globe to illustrate remediation techniques and discusses their applicability It provides guidance for the successful corrective action assessment and response programs for any type of contaminated land problem and at any location The systematic protocols presented will aid environmental professionals in managing contaminated land and associated problems more efficiently This new edition adds twelve new chapters and is fully updated and expanded throughout **Trace Elements in Abiotic and Biotic Environments** Alina

Kabata-Pendias,Barbara Szteke,2015-04-07 This book helps readers understand the fundamental principles and phenomena that control the transfer of trace elements It describes the occurrence and behavior of trace elements in rocks soil water air

and plants and also discusses the anthropogenic impact to the environment In addition the book covers the presence of trace elements in feeds as either contaminants or as nutritional or zootechnical additives and their transfer across the food chain to humans All trace elements are covered from aluminum to zirconium as well as rare earth elements actinides and lanthanides

Green Technologies for Pollutants Remediation and Recovery from Water and Soil Jakub Zdarta, Teofil Jesionowski, Jörg Rinklebe, 2025-09-29 *Green Technologies for Pollutants Remediation and Recovery from Water and Soil* presents a comprehensive examination of sustainable and environmentally friendly methods for remediation and recovery from various types of pollutants in water bodies and soil It discusses diverse remediation and recovery technologies ranging from classic adsorption and membrane technologies to the most promising green technologies such as biocatalysts and microorganisms for obtaining value added products for practical use Through many case studies and best practices this book explores current achievements and challenges and indicates future directions for global and cross border collaboration Key Features Provides a comprehensive overview of the achievements challenges and the current use of eco friendly approaches for pollutant removal and recovery Covers the role of biology biotechnology and chemical technology in designing green technologies for environmental applications Presents innovative applications of microorganisms enzymes adsorption processes and membrane technologies as a base for improvement in green technologies of environmental importance Explains the basic assumptions requirements and mechanisms of green technologies used for pollutant conversion Aims to better understand the importance of sustainable technologies in environmental protection This reference is a great resource for upper level undergraduate and graduate students in environmental science and engineering soil and water sciences biotechnology and chemical engineering as well as researchers and professionals who work as environmental and technical engineers ecologists applied environmental scientists and managers

Antimony Montserrat Filella, 2021-07-05 Antimony Sb is an exciting chemical element ubiquitously present in our daily lives This book provides a coherent and interdisciplinary picture of our current understanding of this element Subjects ranging from its mineralogy mining and environmental chemistry to its potential impact in ecosystems and human health are discussed in this monograph

Vanadium in Soils and Plants Jörg Rinklebe, 2022-08-17 Vanadium is an essential element for humans and animals The toxicity of vanadium at higher concentrations could be a global environmental concern and a significant issue for both environmental protection and economic benefits The relevance of anthropogenic vanadium in the environment has increased significantly in recent years due to an increased demand for vanadium in high temperature industrial activities This book summarizes vanadium s current research and explains its behavior and mobilization in the environment especially in soils sediments water and plants Through case studies from various countries it discusses critical limits set and risk assessment approaches and remediation approaches of vanadium contaminated soils FEATURES Provides a comprehensive overview of vanadium in the total environment Covers the role of vanadium in various environments such as soils sediments water and plants Includes

bioavailability studies and further case studies from various countries around the world Focuses on a better understanding of biogeochemical processes of vanadium Is written by international experts who present the current stage of the knowledge including innovative remediation and management approaches of vanadium contaminated sites This book will be of use to upper level undergraduate and graduate students taking courses in soil science environmental science soil ecology water science plant science ecotoxicology geology and geography as well as scientists lecturers environmental and technical engineers ecologists applied ecological scientists and managers

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