



**Brian Berkowitz
Ishai Dror
Bruno Yaron**

Contaminant Geochemistry

**Interactions and Transport
in the Subsurface Environment**

 **Springer**

Contaminant Geochemistry Interactions And Transport In The Subsurface Environment

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Contaminant Geochemistry Interactions And Transport In The Subsurface Environment:

Contaminant Geochemistry Brian Berkowitz, Ishai Dror, Bruno Yaron, 2008-03-11 Combining earth science subsurface hydrology and environmental geochemistry this book provides a comprehensive background for those interested in the protection and sustainable management of the subsurface environment The reader is introduced to the chemistry of contaminants which usually disturb the natural equilibrium in the subsurface as a result of human activity One focus of the book is on contaminant reactions in soil solutions Discussions on case studies are provided *Soil-Subsurface Change* Bruno Yaron, Ishai Dror, Brian Berkowitz, 2012-02-15 This book combines soil science earth science and environmental geochemistry providing comprehensive background information for specialists interested in chemical induced changes in the soil subsurface system Readers are introduced to the chemistry of contaminants that often disturb the natural soil subsurface equilibrium as a result of human activity While the soil subsurface system has in many cases been affected by human impact the effects of chemical contaminants on the actual matrix and properties have been largely neglected The major focus of the book is on changes to the soil subsurface matrix and properties caused by chemical pollution By integrating results available in the literature we observe that chemical pollutants may lead to the irreversible formation of a new soil subsurface regime characterized by a matrix and properties different than those of the natural regime In contrast to the geological time scales dictating natural changes to the matrix and properties of the soil subsurface system the time scale associated with chemical pollutant induced changes is far shorter and extends over a human lifetime scale The numerous examples presented in the book confirm that chemical contamination should be considered as an additional factor in the formation of a contemporary soil subsurface regime that is different than that of the pristine system **Geomicrobiology: Molecular and**

Environmental Perspective Alexander Loy, Martin Mandl, Larry L. Barton, 2010-07-23 The interaction of microorganisms with geological activities results in processes influencing development of the Earth's geo and biospheres In assessing these microbial functions scientists have explored short and longterm geological changes attributed to microorganisms and developed new approaches to evaluate the physiology of microbes including microbial interaction with the geological environment As the field of geomicrobiology developed it has become highly interdisciplinary and this book provides a review of the recent developments in a cross section of topics including origin of life microbial mineral interactions and microbial processes functioning in marine as well as terrestrial environments A major component of this book addresses molecular techniques to evaluate microbial evolution and assess relationships of microbes in complex natural communities Recent developments in so called omics technologies including meta genomics and meta proteomics and isotope labeling methods allow new insights into the function of microbial community members and their possible geological impact While this book summarizes current knowledge in various areas it also reveals unresolved questions that require future investigations Information in these chapters enhances our fundamental knowledge of geomicrobiology that contributes to the exploitation

of microbial functions in mineral and environmental biotechnology applications. It is our hope that this book will stimulate interest in the general field of geomicrobiology and encourage others to explore microbial processes as applied to the Earth.

Environmental Hydraulics, Two Volume Set George C. Christodoulou, Anastasios I. Stamou, 2010-06-09 Over the last two decades environmental hydraulics as an academic discipline has expanded considerably caused by growing concerns over water environmental issues associated with pollution and water balance problems on regional and global scale. These issues require a thorough understanding of processes related to environmental flows and transport. **Modeling**

Phenomena of Flow and Transport in Porous Media Jacob Bear, 2018-01-25 This book presents and discusses the construction of mathematical models that describe phenomena of flow and transport in porous media as encountered in civil and environmental engineering, petroleum and agricultural engineering as well as chemical and geothermal engineering. The phenomena of transport of extensive quantities like mass of fluid phases, mass of chemical species dissolved in fluid phases, momentum and energy of the solid matrix and of fluid phases occupying the void space of porous medium domains are encountered in all these disciplines. The book, which can also serve as a text for courses on modeling in these disciplines, starts from first principles and focuses on the construction of well posed mathematical models that describe all these transport phenomena.

Molecular Modeling of Geochemical Reactions James D. Kubicki, 2016-07-22 Molecular processes in nature affect human health, the availability of resources, and the Earth's climate. Molecular modelling is a powerful and versatile toolbox that complements experimental data and provides insights where direct observation is not currently possible. **Molecular Modeling of Geochemical Reactions: An Introduction** applies computational chemistry to geochemical problems. Chapters focus on geochemical applications in aqueous, petroleum, organic, environmental, bio, and isotope geochemistry, covering the fundamental theory, practical guidance on applying techniques, and extensive literature reviews in numerous geochemical sub-disciplines. Topics covered include Theory and Methods of Computational Chemistry, Force Field Application and Development, Computational Spectroscopy, Thermodynamics, Structure Determination, Geochemical Kinetics. This book will be of interest to graduate students and researchers looking to understand geochemical processes on a molecular level. Novice practitioners of molecular modelling, experienced computational chemists, and experimentalists seeking to understand this field will all find information and knowledge of use in their research.

Radioisotopes in Weed Research Kassio Mendes, 2020-12-29 Herbicides are of great importance in weed management and are one of the most widely used pesticide groups for weed control across the globe. Concerns around the residual effects of these intensively used chemicals are equally widespread. Offering a new direction for research that focuses on herbicide behavior and its impacts on the environment, this book covers the use of radioisotopes in weed research and the detoxification of herbicides. Applying technological advances in radiation detection, **Radioisotopes in Weed Research** explains how isotopic techniques can be used to identify degradation products and trace the fate of herbicides applied to crop plants.

This book provides essential information on the historical use and recent advances of radioisotopes in weed research. It demonstrates the potential these methods offer the field of weed science in gaining a better understanding of the behavior of herbicides in plants and soil and working to ensure the continuous effective and safe use of herbicides minimizing harmful impacts on ecosystems. Features: Explains the radiometric method with studies of radiolabelled herbicides and includes case studies as examples. Describes radiometric methods to study the behavior of herbicides in soil from transport and transformation to retention. Elucidates the absorption translocation and metabolism studies of herbicides in plants. Authored by a team of leading scientists, this book is written for professors, researchers, extensionists, graduate and undergraduate students, rural producers and other professionals involved in weed science.

Reviews of Environmental Contamination and Toxicology Volume 240 Pim de Voogt, 2016-10-31. Reviews of Environmental Contamination and Toxicology attempts to provide concise critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics in any segment of the environment as well as toxicological implications.

Key Concepts in Environmental Chemistry Grady Hanrahan, 2012. Key Concepts in Environmental Chemistry provides a modern and concise introduction to environmental chemistry principles and the dynamic nature of environmental systems. It offers an intense one semester examination of selected concepts encountered in this field of study and provides integrated tools in explaining complex chemical problems of environmental importance. Principles typically covered in more comprehensive textbooks are well integrated into general chapter topics and application areas. The goal of this textbook is to provide students with a valuable resource for learning the basic concepts of environmental chemistry from an easy to follow condensed application and inquiry based perspective. Additional statistical sampling, modeling and data analysis concepts and exercises will be introduced for greater understanding of the underlying processes of complex environmental systems and fundamental chemical principles. Each chapter will have problem oriented exercises with examples throughout the body of the chapter that stress the important concepts covered and research applications. Case studies from experts in the field. Research applications will be directly tied to theoretical concepts covered in the chapter. Overall, this text provides a condensed and integrated tool for student learning and covers key concepts in the rapidly developing field of environmental chemistry.

Intense one semester approach to learning. Application based approach to learning theoretical concepts. In depth analysis of field based and in situ analytical techniques. Introduction to environmental modeling.

Analysis of Hydrogeochemical Vulnerability Constantin Moraru, Robyn Hannigan, 2017-12-01. This monograph instructs the reader on how to analyze the hydrogeochemical vulnerability. It introduces notions of geochemical signals, points of migration of pollutants in the unsaturated zone and new hydrogeochemical classifications. Three test sites in the USA, Germany and Moldova are described as case studies accompanied by illustrative data. The authors presuppose for future readers only the background mathematics and elementary knowledge of hydrogeology. The presented methodology is both for local and regional assessments. It is

simple does not need implication of high qualification specialists and can be applied to test the groundwater quality The book is useful for undergraduate graduate master and PhD students as well as water quality specialists ecologists and geology professionals

Nickel in Soils and Plants Christos Tsadilas,Jörg Rinklebe,Magdi Selim,2018-09-03 Soils with high Ni contents occur in several parts of the world especially in areas with ultramafic rocks which cause serious environmental impacts This book aims to extend the knowledge on the risks and problems caused by elevated Ni contents and to cover the existing gaps on issues related to various aspects and consequences of high Ni contents in soils and plants Nickel in Soils and Plants brings together discussions on Ni as a trace element and as a micronutrient essential for plant growth and its role in plant physiology It analyzes the biogeochemistry of Ni at the soil plant interface and explains its behavior in the rhizosphere resulting in Ni deficiency or toxicity or Ni tolerance of various Ni hyperaccumulators Included are Ni resources and sources the origin of soil Ni its geochemical forms in soils and their availability to plants a special reference on soils enriched with geogenic Ni such as serpentine soils and the special characteristics of those ecosystems Recent advancements in methods of Ni speciation including the macroscale and X ray absorption spectroscopy studies as well as serious views on Ni kinetics are also covered Written by a team of internationally recognized researchers and expert contributors this comprehensive work addresses the practical aspects of managing Ni in soils and plants for agricultural production and managing soils with high Ni levels by using organic and inorganic amendments The text also addresses practical measures related to Ni toxicity in plants the removal and recovery of Ni from high Ni wastes and offers environmentally friendly innovative processes for mining Ni from soils containing high Ni levels

Urban Soils Andrew W. Rate,2022-01-07 This textbook addresses the increasing trend in urbanization of the world s population and its relation with urban soils Written by active practitioners of university level teaching and research this book is designed primarily as an educational text while it also provides readers with an authoritative gateway to the primary literature It includes explicit coverage of spatial and statistical multivariate techniques and case studies to illustrate key concept and to support practical guidance in issues such as data collection and analysis The authors reflect current developments in research and urban trends In China for example the proportion of the population living in cities increased from 13% in 1950 to 45% in 2010 World Bank data Australia is one of the world s top ten urbanised countries with population greater than ten million with approximately 90% of its population living in cities mainly along Australia s coast The most rapidly urbanising populations are currently in nations of the African continent Soils in urban areas have multiple functions which are becoming more valued by urban communities soils supply water nutrients and physical support for urban plant and animal communities parks reserves gardens and are becoming increasingly valued for growing food Soils may be used for building foundations or as building materials themselves Urban hydrology relies on the existence of unsealed soils for aquifer protection and flood control This volume presents the importance of urban ecosystems and the impacts of global change It examines pedogenesis of urban soils natural materials affected by urban phenomena and

natural processes acting on urban materials including an examination of different climatic zones There is a focus on soils formed on landfill reclaimed land dredge spoils as well as soil related changes in urban geomorphology There is plenty of discussion on urban soil as a source and sink as well as soil geochemistry and health The book is intended primarily as a text for upper level undergraduate and postgraduate Masters students It will also be invaluable as a resource for professionals such as researchers environmental regulators and environmental consultants Fiscal Year 2000 Department of Energy Budget Authorization Request, Parts I and II United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,2000 *Environmental Fluid Mechanics* Hayley H. Shen,Alexander H.D. Cheng,Keh-Han Wang,Michelle H. Teng,Clark C. K. Liu,2002-01-01 Sponsored by the Fluids Committee of the Engineering Mechanics Division of ASCE This report provides environmental engineers with a comprehensive survey of recent developments in the application of fluid mechanics theories to treat environmental problems Chapters cover principles of fluid mechanics as well as contemporary applications to environmental problems involving river lake coastal and groundwater areas Topics include turbulent diffusion mixing of a turbulent jet in crossflow the advected line puff multi phase plumes in uniform stratified and flowing environments turbulent transport processes across natural streams three dimensional hydrodynamic and salinity transport modeling in estuaries fluid flows and reactive chemical transport in variably saturated subsurface media heat and mass transport in porous media parameter identification of environmental systems finite element analysis of stratified lake hydrodynamics water quality modeling in reservoirs and linear systems approach to river water quality analysis In addition to providing valuable information to practitioners this book also serves as a text for an advanced undergraduate or introductory graduate level course **Contaminants in the Subsurface Environment** P. L. McCarty,P. V. Roberts,1990-05-31 There is no description available for this title Research in Progress, FY 1992 United States. Department of Energy. Office of Health and Environmental Research,1993 **EPA Environmental Assessment Sourcebook** J. Russell Boulding,1996-03-01 The Environmental Protection Agency EPA sponsors constant publication of the latest soil and groundwater contamination studies Editor J Russell Boulding has compiled the most recent and the best of these documents in the EPA Environmental Assessment Sourcebook This book is required reading for both the novice and the experienced environmental academic or technician Boulding s selections address the basic concepts of contaminant behavior through the newest sampling techniques The EPA Environmental Assessment Sourcebook is an essential and convenient tool for anyone on the cutting edge of contamination detection monitoring and hopefully someday prevention Fiscal Year 2001 Budget Authorization Request United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,2001 **Herbicidas no ambiente** Kássio Ferreira Mendes,Miriam Hiroko Ionoue/ Valdemar Luiz Tornisielo,2022-06-14 Os herbicidas representam um dos grupos de pesticidas mais amplamente utilizados em todo o mundo para o controle de plantas daninhas em reas agr colas e n o agr colas Devido ao uso intenso e sua import ncia no manejo de

plantas daninhas a pesquisa nesta área fundamental para garantir o uso contínuo eficaz e seguro minimizando os impactos prejudiciais para os ecossistemas Atualmente grande quantidade de pesquisas se concentra na área de comportamento e destino de herbicidas visando a melhor compreensão do transporte transformações e retenção desses produtos no ambiente O nosso propósito geral com este livro mostrar a tripla relação entre as propriedades físico-químicas dos herbicidas o seu comportamento ambiental e o controle químico das plantas daninhas Aqui são abordados vários tópicos sobre pesquisas atuais e valiosas tornando este livro o mais completo na área da Ciência das Plantas Daninhas no Brasil

Environmental Geochemistry B. Sherwood Lollar, 2005-05-21 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools

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