



H. Rubin  
N. Narkis  
J. Carberry  
(Eds.)

# **Soil and Aquifer Pollution**

Non-Aqueous Phase Liquids –  
Contamination and Reclamation



Springer

# Soil And Aquifer Pollution Nonaqueous Phase Liquids Contamination And Reclamation

**Casimir C. Akoh**



## **Soil And Aquifer Pollution Nonaqueous Phase Liquids Contamination And Reclamation:**

Soil and Aquifer Pollution Hillel Rubin, Nava Narkis, Judith Carberry, 2013-03-09 The Water Research Institute at the Technion Israel Institute of Technology is proud to have initiated and sponsored the International Workshop Soil and Aquifer Pollution Non Aqueous Phase Liquids Contamination and Reclamation held May 13th 15th 1996 on the Technion campus in Haifa Groundwater contamination is one of the pressing issues facing Israel and other countries which depend on groundwater for water supply In Israel 60% of the water supply comes from groundwater most of it from two large aquifers The Coastal Aquifer underlies the area where the largest concentration of human activity already takes place and where much of future development is expected to occur It is a phreatic sandstone aquifer vulnerable to pollution from activities at the surface The Mountain Aquifer is recharged in the higher terrain to the east and flows first in a phreatic zone then confined westward and underneath the Coastal Aquifer This limestone aquifer has higher permeabilities and flow velocities so pollution can reach the groundwater quite readily Smaller local aquifers are also important components in the national water system While measures are taken to protect these aquifers from pollution there are locations where contamination has already occurred Furthermore accidental pollution may not be totally avoided in the future Therefore understanding the processes of groundwater contamination recommending the proper measures for preventing it and determining the best means for reclamation once pollution has occurred are of great practical importance Non aqueous phase liquids NAPLs are among the most significant contaminants

**Handbook of Environmental Fluid Dynamics, Two-Volume Set** Harindra Joseph Fernando, 2012-12-11 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field this two volume handbook presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the field along with critical discussions of environmental sustainability related to engineering aspects The first volume provides a comprehensive overview of the fundamentals and the second volume explores the interactions between engineered structures and natural flows

Handbook of Environmental Fluid Dynamics, Volume One Harindra Joseph Fernando, 2012-12-12 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field the two volume Handbook of Environmental Fluid Dynamics presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the study of environmental motions It also offers critical discussions of environmental sustainability related to engineering The handbook features 81 chapters written by 135 renowned researchers from around the world Covering environmental policy biological and chemical aspects it tackles important cross disciplinary topics such as sustainability ecology pollution micrometeorology and limnology Volume One Overview and Fundamentals provides a comprehensive overview of the basic principles It starts

with general topics that emphasize the relevance of environmental fluid dynamics research in society public policy infrastructure quality of life security and the law It then discusses established and emerging focus areas The volume also examines the sub mesoscale flow processes and phenomena that form the building blocks of environmental motions with emphasis on turbulent motions and their role in heat momentum and species transport As communities face existential challenges posed by climate change rapid urbanization and scarcity of water and energy the study of environmental fluid dynamics becomes increasingly relevant This volume is a valuable resource for students researchers and policymakers working to better understand the fundamentals of environmental motions and how they affect and are influenced by anthropogenic activities See also Handbook of Environmental Fluid Dynamics Two Volume Set and Volume Two Systems Pollution Modeling and Measurements     Bioavailability of Organic Xenobiotics in the Environment P. Baveye,J.-C. Block,V.V. Goncharuk,2013-03-14 In the continuing fight against organic environmental xenobiotics the initial success attributed to bioremediation has paled in part due to the low availability of xenobiotics entrapped within a soil or sediment matrix This has generated a very significant wave of interest in the bioavailability issue However much experimental evidence is puzzling or contradictory mechanistic theories are embryonic and implications for the practice of bioremediation or concerning the natural fate of xenobiotics are still tentative The debate in Europe and the USA is vigorous Eastern Europe following the liberalisation of the economy and political life is evolving in a similar direction In many cases however limited access to literature sources severe language barriers and the lack of a strong pluridisciplinary tradition are hampering the adoption of state of the art techniques Originally intended to allow scientists in East European countries to become acquainted with the key aspects of the bioavailability debate that is unfolding in the scientific literature in the West and with its implications for bioremediation efforts the present book presents a very complete coverage of the theoretical and practical aspects of the limited bioavailability of organic xenobiotics in the environment     ENVIRONMENTAL MONITORING -Volume II Hilary I. Inyang , John L. Daniels,2009-10-16 Environmental Monitoring theme is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Environmental Monitoring is largely concerned with strategies in the preparation of environmental impact assessments as well as in many circumstances in which human activities carry a risk of harmful effects on the natural environment All monitoring strategies and programmes on environment have reasons and justifications which are often designed to establish the current status of an environment or to establish trends in environmental parameters The content of the Theme provides the essential aspects and a myriad of issues that are great relevance to our world with respect to environmental monitoring These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs     A Numerical Investigation of

Metabolic Reductive Dechlorination in DNAPL Source Zones John Anthony Christ, 2005 Among the most intractable environmental remediation problems are those involving the release of dense non aqueous phase liquids DNAPLs such as chlorinated solvents to the subsurface Research efforts have focused on the use of numerical models to investigate reductions in contaminant concentrations due to partial mass removal and improvements in the performance of complementary source zone remediation technologies Previous numerical investigations however have been limited to two dimensional systems Furthermore a lack of models capable of simulating the most promising complementary technology metabolic reductive dechlorination has limited its application This work developed and applied compositional multiphase numerical simulators to examine the influence of dimensionality two dimensions versus three dimensions on DNAPL source zone simulations and to investigate the benefits of stimulating metabolic reductive dechlorination at a chlorinated ethene DNAPL contaminated site Results from the dimensionality investigation showed that the simulation of DNAPL migration entrapment and dissolution in two dimensions provided reasonable approximations to the behavior simulated in three dimensions Commonly employed saturation distribution and mass recovery metrics were approximately equivalent Flux averaged concentrations simulated in two dimensions however tended to be three to four times higher than those simulated in three dimensions This difference was attributed to dilution at the down gradient boundary An alternative metric mass flux reduction however yielded better agreement

*Encyclopedia of Soils in the Environment*, 2004-11-08 More than ever before a compelling need exists for an encyclopedic resource about soil the rich mix of mineral particles organic matter gases and soluble compounds that foster both plant and animal growth Civilization depends more on the soil as human populations continue to grow and increasing demands are placed upon available resources The Encyclopedia of Soils in the Environment is a comprehensive and integrated consideration of a topic of vital importance to human societies in the past present and future This important work encompasses the present knowledge of the world's variegated soils their origins properties classification and roles in the biosphere A team of outstanding international contributors has written over 250 entries that cover a broad range of issues facing today's soil scientists ecologists and environmental scientists This four volume set features thorough articles that survey specific aspects of soil biology ecology chemistry and physics Rounding out the encyclopedia's excellent coverage contributions cover cross disciplinary subjects such as the history of soil utilization for agricultural and engineering purposes and soils in relation to the remediation of pollution and the mitigation of global climate change This comprehensive yet accessible source is a valuable addition to the library of scientists researchers students and policy makers involved in soil science ecology and environmental science Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit [www.info.sciencedirect.com](http://www.info.sciencedirect.com)

**Restoration of Contaminated Aquifers** Duane L. Winegardner, Stephen

M. Testa, 2016-04-19 The second edition of *Restoration of Contaminated Aquifers Petroleum Hydrocarbons and Organic Compounds* incorporates the latest advances in in situ remediation and natural attenuation and maintains the comprehensive accessible structure that made the first edition a classic The new edition broadens the scope of the first by examining all

*Food Lipids* Casimir C. Akoh, 2017-03-16 Maintaining the high standards that made the previous editions such well respected and widely used references *Food Lipids Chemistry Nutrition and Biotechnology Fourth Edition* provides a new look at lipid oxidation and highlights recent findings and research Always representative of the current state of lipid science this edition provides 16 new chapters and 21 updated chapters written by leading international experts that reflect the latest advances in technology and studies of food lipids New chapters Analysis of Fatty Acid Positional Distribution in Triacylglycerol Physical Characterization of Fats and Oils Processing and Modification Technologies for Edible Oils and Fats Crystallization Behavior of Fats Effect of Processing Conditions Enzymatic Purification and Enrichment and Purification of Polyunsaturated Fatty Acids and Conjugated Linoleic Acid Isomers Microbial Lipid Production Food Applications of Lipids Encapsulation Technologies for Lipids Rethinking Lipid Oxidation Digestion Absorption and Metabolism of Lipids Omega 3 Polyunsaturated Fatty Acids and Health Brain Lipids in Health and Disease Biotechnologically Enriched Cereals with PUFAs in Ruminant and Chicken Nutrition Enzyme Catalyzed Production of Lipid Based Esters for the Food Industry Emerging Process and Technology Production of Edible Oils Through Metabolic Engineering Genetically Engineered Cereals for Production of Polyunsaturated Fatty Acids The most comprehensive and relevant treatment of food lipids available this book highlights the role of dietary fats in foods human health and disease Divided into five parts it begins with the chemistry and properties of food lipids covering nomenclature and classification extraction and analysis and chemistry and function Part II addresses processing and food applications including modification technologies microbial production of lipids crystallization behavior chemical interesterification purification and encapsulation technologies The third part covers oxidation measurements and antioxidants Part IV explores the myriad interactions of lipids in nutrition and health with information on heart disease obesity and cancer with a new chapter dedicated to brain lipids Part V continues with contributions on biotechnology and biochemistry including a chapter on the metabolic engineering of edible oils

*Encyclopedia of Consumption and Waste* Carl A. Zimring, William L. Rathje, Consulting Editor, 2012-02-27 Archaeologists and anthropologists have long studied artifacts of refuse from the distant past as a portal into ancient civilizations but examining what we throw away today tells a story in real time and becomes an important and useful tool for academic study Trash is studied by behavioral scientists who use data compiled from the exploration of dumpsters to better understand our modern society and culture Why does the average American household send 470 pounds of uneaten food to the garbage can on an annual basis How do different societies around the world cope with their garbage in these troubled environmental times How does our trash give insight into our attitudes about gender class religion and art The *Encyclopedia of Consumption and Waste* explores

the topic across multiple disciplines within the social sciences and ranges further to include business consumerism environmentalism and marketing to comprise an outstanding reference for academic and public libraries Soils and Fertilizers ,1998-07 Subsurface Restoration C. H. Ward,1997-11-01 Presenting a clear understandable examination this book outlines efficient effective methods and strategies for the complex field of subsurface remediation The editors fully assess the state of knowledge of subsurface science requisite for finding new solutions providing a focused guide for advanced subsurface remediation technology Unparalleled in scope and practicality Subsurface Restoration assists those persons determining the extent of environmental contamination for remedial technology selection and for environmental decision making at all levels *Dense Nonaqueous Phase Liquids* ,1992 *Northern Research Basins Water Balance* Douglas L. Kane,Daqing Yang,2004 **Environmental Health Perspectives** ,1993 *Microbial Ecology of Biofilms* Bruce E. Rittmann,1999 Biofilms are ubiquitous yet until recently scientists and engineers involved in biofilm research or application had a severely limited insight into the structure and functioning of biofilms on a microbial level However the past decade has seen an explosion of new techniques to elucidate the structure and functions of biofilms e g molecular probes microensors scanning electron microscopy and a new generation of mathematical models The 35 contributions selected for these proceedings after peer review reflect these developments with papers grouped into the following themes nutrient removal systems anaerobic systems biofilm physical structure and aerobic water treatment multidimensional modelling detoxification of hazardous chemicals and transport processes in and to the biofilm The proceedings provide a unique panorama of the latest scientific tools the emerging new concepts and the widespread applications that are making microbial ecology of biofilms such an exciting field These genuinely state of the art papers lay foundations for great progress in the next century Environmental Science Frank R. Spellman,Melissa L. Stoudt,2013-02-14 Environmental Science Principles and Practices provides the scientific principles concepts applications and methodologies required to understand the interrelationships of the natural world identify and analyze environmental problems both natural and manmade evaluate the relative risks associated with these problems and examine alternative solutions such as renewable energy sources for resolving and even preventing them Frank R Spellman and Melissa Stoudt introduce the science of the environmental mediums of air water soil and biota to undergraduate students Interdisciplinary by nature environmental science embraces a wide array of topics Environmental Science Principles and Practices brings these topics together under several major themes including How energy conversions underlie all ecological processesHow the earth s environment functions as an integrated systemHow human activities alter natural systemsHow the role of culture social and economic factors is vital to the development of solutionsHow human survival depends on practical ideas of stewardship and sustainability Environmental Science Principles and Practices is an ideal resource for students of science in the classroom and at home in the library and the lab *Selected Water Resources Abstracts* ,1991 *EPA Publications Bibliography* United States. Environmental

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