

Surfactant-Enhanced Subsurface Remediation

Emerging Technologies



EDITED BY
**David A. Sabatini, Robert C. Knox,
and Jeffrey H. Harwell**

ACS Symposium Series 594

Surfactant Enhanced Subsurface Remediation Emerging Technologies

Danny Reible, Katerina Demnerova



Surfactant Enhanced Subsurface Remediation Emerging Technologies:

Surfactant-enhanced Subsurface Remediation, 1995 *Surfactant-Enhanced Subsurface Remediation - Emerging Technologies*, Developed from a symposium presented at the 207th National Meeting of the American Chemical Society (ACS), San Diego, CA, March 13 - 17 1994 Sabatini DA Ed, 1995 Surfactant-enhanced DNAPL Remediation David A. Sabatini, 1996 Emerging Technologies in Hazardous Waste Management 8 D. William Tedder, Frederick G. Pohland, 2000-05-31 Several long term trends in technology evolution have become apparent since these symposia began in 1989 Earlier presenters more frequently discussed treatment methods involving harsh and extensive human intervention As the symposia have continued the number of presentations describing extremely harsh and expensive treatment technologies have gradually been supplanted by more subtle and gentler methods Such methods include subsurface engineered barriers phytoremediation and bioremediation Nineteen manuscripts were selected for inclusion in this volume based upon peer review scientific merit the editors perceptions of lasting value or innovative features and the general applicability of either the technology itself or the scientific methods and scholarly details provided by the authors General topics include soil treatment groundwater treatment and radioactive waste treatment **Surfactant-enhanced Subsurface Remediation** David A. Sabatini, 1995 Provides a timely and thorough review of surfactant based remediation technologies Covers fundamental mechanistic studies to scale up and process modeling and full scale field implementation studies Summarizes the technical economic and sociopolitical issues affecting widespread implementation of these technologies Includes contributions from academic and industrial researchers as well as regulatory personnel *Surfactants* Laurier Lincoln Schramm, Laurier L. Schramm, 2000-03-23 This 2000 book provides an introduction to the nature occurrence physical properties propagation and uses of surfactants in the petroleum industry Surfactant Enhancements, 1995 **Innovative Subsurface Remediation** Mark L. Brusseau, 1999 This volume evaluates a selection of new technologies for the remediation of groundwater pollution It covers techniques for both site remediation and characterization and many of the techniques described are ready for commercial application **Physicochemical Groundwater Remediation** James A. Smith, Susan E. Burns, 2001-07-31 You will learn how palladium catalyzes the dehalogenation of chlorinated solvents *Remediation Engineering of Contaminated Soils* Donald L. Wise, 2000-07-25 Offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomechanics monitoring of contaminants in the subsurface and waste containment Cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological approaches *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

Oil Spill Remediation Ponisseril Somasundaran, Partha Patra, Raymond S. Farinato, Kyriakos Papadopoulos, 2014-04-10 This book provides a comprehensive overview of oil spill remediation from the perspectives of policy makers scientists and engineers generally focusing on colloid chemistry phenomena and solutions involved in oil spills and their cleanup First book to address oil spill remediation from the perspective of physicochemical and colloidal science Discusses current and emerging detergents used in clean ups Includes chapters from leading scientists researchers engineers and policy makers Presents new insights into the possible impact of oil spills on ecosystems as well as preventive measures

Handbook of Detergents - 6 Volume Set Uri Zoller, 2008-11-23 With contributions from experts and pioneers this set provides readers with the tools they need to answer the need for sustainable development faced by the industry The six volumes constitute a shift from the traditional mostly theoretical focus of most resources to the practical application of advances in research and development With con

Emerging Technologies in Hazardous Waste Management 7 D. William Tedder, Frederick G. Pohland, 2013-11-11 Proceedings of the I EC Division of the ACS Symposium held in Birmingham Alabama September 17 20 1996

Information Resources in Toxicology Philip Wexler, 2000 History K D Watson P Wexler and J Everitt Highlights in the History of Toxicology Selected References in the History of Toxicology A Historical Perspective of Toxicology Information Systems Books and Special Documents G L Kennedy Jr P Wexler N S Selzer and L A Malley General Texts Analytical Toxicology Animals in Research Biomonitoring Biomarkers Biotechnology Biotoxins Cancer Chemical Compendia Chemical Cosmetics and Other Consumer Products Chemical Drugs Chemical Dust and Fibers Chemical Metals Chemicals Pesticides Chemicals Solvents Chemical Selected Chemicals Clinical Toxicology Developmental and Reproductive Toxicology Environmental Toxicology General Environmental Toxicology Aquatic Environmental Toxicology Atmospheric Environmental Toxicology Hazardous Waste Environmental Toxicology Terrestrial Environmental Toxicology Wildlife Ep

New Horizons Richard T. Coffey, 1996

Innovations in Ground Water and Soil Cleanup Committee on Innovative Remediation Technologies, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1997-11-04 Most books on ground water and soil cleanup address only the technologies themselves not why new technologies are or are not developed Innovations in Ground Water and Soil Cleanup takes a holistic approach to the entire field addressing both the sluggish commercial development of ground water and soil cleanup technologies and the attributes of specific technologies It warns that despite cleanup expenditures of nearly 10 billion a year the technologies remain rudimentary This engaging book focuses on the failure of regulatory policy to link cleanup with the financial interests of the company responsible for the contamination The committee explores why the market for remediation

technology is uniquely lacking in economic drivers and why demand for innovation has been so much weaker than predicted The volume explores how to evaluate the performance of cleanup technologies from the points of view of the public regulators cleanup entrepreneurs and other stakeholders The committee discusses approaches to standardizing performance testing so that choosing a technology for a given site can be more timely and less contentious Following up on Alternatives for Ground Water Cleanup NRC 1994 this sequel presents the state of the art in the cleanup of various types of ground water and soil contaminants Strategies for making valid cost comparisons also are reviewed Innovative Approaches to the On-Site Assessment and Remediation of Contaminated Sites Danny Reible, Katerina Demnerova, 2012-12-06 2 DANNY D REIBLE AND KATERINA DEMNEROVA 1 Hazardous Substance Research Center South and Southwest Louisiana State University Baton Rouge LA 70803 2 Department of Biochemistry and Microbiology Institute of Chemical Technology Prague Czech Republic On May 24 2001 a total of 102 students and lecturers participated in an Advanced Study Institute ASI sponsored by the North Atlantic Treaty Organization NATO under our direction The Institute was focused on in situ and onsite management of contaminated sites The objective of the Institute was to balance state of the art science with techniques for field application of a variety of technologies for in situ assessment and remediation of contaminated sites Many of the lecturers were drawn from the ranks of the Hazardous Substance Research Centers multi university consortia that have been funded by the US Environmental Protection Agency to conduct research and technology transfer designed to promote risk based management and control of hazardous substances for the nation The Centers have made special contributions to the areas of in situ and onsite assessment and remediation of contaminated sites Such approaches have the potential for being significantly less expensive than other assessment and remediation approaches while maintaining accuracy and effectiveness Cost effective remedial and management approaches that are also effective in minimizing exposure and risk to human health and the environment are a critical need throughout the world but particularly in Eastern Europe and the former Soviet Union where resources that can be devoted to environmental cleanup are especially limited

Partition and Adsorption of Organic Contaminants in Environmental Systems Cary T. Chiou, 2003-07-07 Given the presence of a wide variety of contaminants in the environment it is important to understand what drives a contaminant from one medium to another as well as the manner and extent to which a contaminant associates with the different media or phases within a local environmental system Partition and Adsorption of Organic Contaminants in Environmental Systems forms a comprehensive resource on the behavioral characteristics of contaminants so that appropriate strategies can be adopted to either prevent or minimize their adverse impacts on human welfare and natural resources Cary Chiou's far reaching text depicts the processes by which nonionic organic contaminants are sorbed to natural biotic and abiotic substances This book focuses on physical principles and system parameters that affect the contaminant uptake by soil from water air and other media by fish from water and by plants from soil and water As contaminant uptake by natural organic

substances is often predominantly a partition interaction the partition characteristics in several solvent water model mixtures are treated in detail to elucidate the relevant physicochemical parameters The account of contaminant sorption to soils fish and plants is strengthened by companion chapters on Fundamentals of solution theory Interphase partition equations Fundamentals of adsorption theory Vapor adsorption on mineral and carbonaceous solids No other single source in the field delivers as compelling a combination of background understanding and state of the science comprehension of current issues Ideally suited for a graduate level environmental course Partition and Adsorption of Organic Contaminants in Environmental Systems also serves as a technical guide to current and future research in the field

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

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