

Bioremediation of Chlorinated and Polycyclic Aromatic Hydrocarbon Compounds

Robert E. Hinchee
Andrea Leeson
Lewis Semprini
Say Kee Ong



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JL Elias



Bioremediation Of Chlorinated And Polycyclic Aromatic Hydrocarbon Compounds:

Bioremediation of Chlorinated and Polycyclic Aromatic Hydrocarbon Compounds Battelle Memorial In,1994-02-28 This timely reference presents the state of the art of the emerging and rapidly changing field of bioremediation of chlorinated solvents PCBs and other chlorinated compounds as well as PAHs both in situ and on site This landmark publication reports significant advances in bioremediation with an emphasis on practical applications and state of the art developments Laboratory and field oriented reviews are presented with the objective of tying treatability studies and recent laboratory developments to field applications No other reference source gives you access to the most current techniques and methods for the bioremediation of chlorinated and polycyclic aromatic hydrocarbon compounds This book represents the work of leading experts in the fields of in situ and on site bioremediation from North America Europe and Asia The chapters include current field applications and laboratory studies undertaken in some cases in countries with regulatory standards more stringent than those of the United States

Handbook on Biodegradation and Biological Treatment of Hazardous Organic Compounds M.H. van Agteren,Sytze Keuning,D. Janssen,2013-04-17 The introduction of synthetic organic chemicals into the environment during the last few decades has given rise to major concern about the ecotoxicological effects and ultimate fate of these compounds The pollutants that are considered to be most hazardous because of their intrinsic toxicity high exposure level or recalcitrant behavior in the environment have been placed on blacklists and other policy priority lists The fate of synthetic compounds that enter the environment is mainly determined by their rate of biodegradation which therefore also has a major effect on the degree of bioaccumulation and the risk of ecotoxicological effects The degree and rate of biodegradation is also of critical importance for the feasibility of biological techniques to clean up contaminated sites and waste streams The biodegradation of xenobiotics has thus been the subject of numerous studies which resulted in thousands of publications in scientific journals books and conference proceedings These studies led to a deeper understanding of the diversity of biodegradation processes As a result it has become possible to enhance the rate of degradation of recalcitrant pollutants during biological treatment and to design completely new treatment processes At present much work is being done to expand the range of pollutants to which biodegradation can be applied and to make treatment techniques less expensive and better applicable for waste streams which are difficult to handle

Bioremediation Technologies for Polycyclic Aromatic Hydrocarbon Compounds Andrea Leeson,Bruce C. Alleman,1999 Polycyclic aromatic hydrocarbon compounds PAHs are common and challenging contaminants that affect soil and sediments Methods for treating PAHs have undergone change and refinement in the recent past and this volume presents the latest trends in PAH remediation theory and practice The papers in this volume cover topics ranging from the remediation of manufactured gas plant MGP sites to the remediation of sediments The papers present lab and field studies characterization studies comparison studies and descriptions of technologies ranging from composting to thermally enhanced

bioremediation to fungal technologies and other innovative approaches Phase II Final Report, NATO/CCMS Pilot Study
,1998 *Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination* J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface *Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment* Prev *Handbook of Solvents* George Wypych, 2001 A comprehensive extensive textual analysis of the principles of solvent selection and use the handbook is intended to help formulators select ideal solvents safety coordinators to protect workers and legislators and inspectors to define and implement technically correct public safeguards for use handling and disposal *Environmental Health Perspectives* ,1993 **Environmental Biotechnology** Murray Moo-Young, W.A. Anderson, A.M. Chakrabarty, 2013-06-29 Biotechnology offers a natural way of addressing environmental problems ranging from identification of biohazards to bioremediation techniques for industrial agricultural and municipal effluents and residues Biotechnology is also a crucial element in the paradigm of sustainable development This collection of 66 papers by authors from 20 countries spanning 4 continents addresses many of these issues The material presented will interest scientists engineers and others in industry government and academia It incorporates both introductory and advanced aspects of the subject matter which includes water air and soil treatment biosensor and biomonitoring technology genetic engineering of microorganisms and policy issues in applying biotechnology to environmental problems The papers present a variety of aspects ranging from current state of the art research to examples of applications of these technologies *Standard Handbook Oil Spill Environmental Forensics* Scott Stout, Zhendi Wang, 2016-02-03 *Standard Handbook Oil Spill Environmental Forensics* Fingerprinting and Source Identification Second Edition provides users with the latest information on the tools and methods that have become popular over the past ten years The book presents practitioners with the latest environmental forensics techniques and best practices for quickly identifying the sources of spills how to form an effective response and how to determine liability This second edition represents a complete overhaul of the existing chapters and includes 13 new chapters on methods and applications such as emerging application of PAH isomers in oil spill forensics development and application of computerized oil spill identification COSI and fingerprinting of oil in biological and passive sampling devices Contains 13 new chapters on methods and applications including emerging application of PAH isomers in oil drill forensics the development and application of computerized oil spill identification COSI and the fingerprinting of oil in biological and passive sampling devices Presents the latest technology and methods in biodegradation of oil hydrocarbons and its implications for source identification surface trajectory modeling of marine oil spills and identification of hydrocarbons in biological samples for source determination Contains new case studies to illustrate key applications methods and techniques Bioreactors for Waste Gas Treatment C. Kennes, M.C. Veiga, 2013-03-14 Air pollution a major concern at

the end of the 20th century still remains a significant problem to be solved today Traditionally industrial waste gases have primarily been treated through physical or chemical methods The search for new efficient and cost effective alternative technologies has led to the development and more recently the improvement of gas phase bioreactors This book is the first single text to provide a complete comprehensive picture of all major biological reactors suitable for solving air pollution problems The text describes the main features and covers the major aspects from microbiological to engineering as well as economic aspects of the different types of bioreactors The book also presents an in depth review of the subject from fundamental bench scale research to industrial field applications related to the operation of full scale systems successfully treating polluted air in Europe and the United States Material dedicated to more conventional non biological technologies has also been included to provide a complete overview of the different alternative treatment processes Audience The different chapters have been written by international experts as a result of a fruitful collaboration between European and American scientists and engineers The resulting text is a high quality valuable reference tool for a variety of readers including graduate and postgraduate students researchers professors engineers and those professionals who are interested in environmental engineering and more specifically in innovative air pollution control technologies

Reviewing **Bioremediation Of Chlorinated And Polycyclic Aromatic Hydrocarbon Compounds**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Bioremediation Of Chlorinated And Polycyclic Aromatic Hydrocarbon Compounds**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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