

Bioremediation Of Contaminated Soils Environmental Science Pollution

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Bioremediation Of Contaminated Soils Environmental Science Pollution:

Bioremediation of Contaminated Soils Donald L. Wise,2000-06-09 This volume focuses on innovative bioremediation techniques and applications for the cleanup of contaminated media and sites It includes quantitative and design methods that elucidate the relationships among various operational parameters and waste chemistry that defines the cost effectiveness of bioremediation projects It also presents numerical models

Bioremediation of Contaminated Soils Donald L. Wise,2000-06-09 This volume focuses on innovative bioremediation techniques and applications for the cleanup of contaminated media and sites It includes quantitative and design methods that elucidate the relationships among various operational parameters and waste chemistry that defines the cost effectiveness of bioremediation projects It also presents numerical models

Biomangement of Metal-Contaminated Soils Mohammad Saghir Khan,Almas Zaidi,Reeta Goel,Javed Musarrat,2011-08-30 Heavy metal contamination is one of the world s major environmental problems posing significant risks to agro ecosystems Conventional technologies employed for heavy metal remediation have often been expensive and disruptive This book provides comprehensive state of the art coverage of the natural sustainable alternatives that use a wide range of biological materials in the removal detoxification of heavy metals consequently leading to the improvement of crops in these soils Novel environmentally friendly and inexpensive solutions are presented based on a sound understanding of metal contamination and the roles of plants and microbes in the management of these toxic soils Written by worldwide experts the book provides not only the necessary scientific background but also addresses the challenging questions that require special attention in order to better understand metal toxicity in soils and its management through bioremediation

The Utilization of Bioremediation to Reduce Soil Contamination: Problems and Solutions Václav Sasek,John A. Glaser,P. Baveye,2012-12-06 Traditional reliance on chemical analysis to understand the direction and extent of treatment in a bioremediation process has been found to be inadequate Whereas the goal of bioremediation is toxicity reduction few direct reliable measures of this process are as yet available Another area of intense discussion is the assessment of market forces contributing to the acceptability of bioremediation Finally another important component is a series of lectures and lively exchanges devoted to practical applications of different bioremediation technologies The range of subjects covers a wide spectrum encompassing emerging technologies as well as actual full scale operations Examples discussed include landfarming biopiling composting phytoremediation and mycoremediation Each technology is explored for its utility and capability to provide desired treatment goals Advantages and limitations of each technology are discussed The concept of natural attenuation is also critically evaluated since in some cases where time to remediation is not a significant factor it may be an alternative to active bioremediation operations

Remediation of Hazardous Waste Contaminated Soils Donald L. Wise,2018-10-03 This unique single source reference offers a thorough treatment of the remediation of soils contaminated by hazardous wastes and the scientific and engineering issues that must be addressed in creating practical

solutions for their reclamation Soil Bioremediation Maulin P. Shah,Deepanwita Deka,2025-03-28 This book is presented on bioremediation of soil including different aspects for sustainable development of agriculture environment etc Significant attention is being paid to plants and microbes because of their metabolomics molecular mechanisms biochemical pathways bioengineering and cost effective nature in an eco friendly green approach It presents a detailed account on phytoremediation microbial remediation application of different plants and microorganisms for bioremediation in agricultural soil nanoparticles metabolites produced by plants and microbes for bioremediation of soil multidisciplinary approaches of bioremediation to alleviate major soil contamination issues molecular mechanisms biochemical approach of bioremediation of soil plants and microbial engineering for bioremediation recent advances and challenges future prospects of bioremediation of contaminated soil utilizing biodiversity for sustainable development of the soil ecosystem **Contaminated Soils, Sediments and Water:** Edward J. Calabrese,Paul T. KostECKI,James Dragun,2006-01-16 Contaminated Soils Volume 9 contains 38 technical papers covering a wide range of environmental issues Volume discussion includes Part I Bioremediation Part II Chemical Oxidation Part III Heavy Metals Part IV MTBE Part V Phytoremediation Part VI Radiation Part VII Regulatory and Legal issues Part VIII Remediation Part IX Risk Based Cleanup and Part X Site Assessment Contributing authors to this volume are from government agencies academic institutions the consulting community and industrial companies This important volume documents the state of environmental science and provides perspective on where we as an industry have come from Increased scientific engineering and consulting alliances and collaboration should drive our efforts going forward **Soil and Sediment Remediation** Piet Lens,T. Grotenhuis,G. Malina,H. Tabak,2005-09-30 Soil and Sediment Remediation discusses in detail a whole set of remediative technologies currently available to minimise their impact Technologies for the treatment of soils and sediments in situ landfarming bioscreens bioventing nutrient injection phytoremediation and ex situ landfarming bio heap treatment soil suspension reactor will be discussed The microbiological process technological and socio economical aspects of these technologies will be addressed Special attention will be given to novel biotechnological processes that utilise sulfur cycle conversions e g sulfur and heavy metal removal from soils Also the potential of phytoremediation will be highlighted In addition treatment schemes for the clean up of polluted megasites e g harbours and Manufactured Gaswork Plants MGP will be elaborated The aim of Soil and Sediment Remediation is to introduce the reader in the biogeochemical characteristics of soil and sediments new techniques to study soil sediment processes molecular probes microelectrodes NMR clean up technologies for soils polluted with organic PAH NAPL solvents or inorganic heavy metals preventative and remediative strategies and technologies available in environmental engineering novel process applications and bioreactor designs for bioremediation the impact of soil pollution on society and its economic importance 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 geomedia 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 Remediation of Petroleum Contaminated Soils Eve Riser-Roberts,2020-11-25 This book combines the results of current research with essential background material to provide complete in depth coverage of every aspect of in situ and ex situ bioremediation as well as an extensive overview of the physical and chemical processes currently available for treating petroleum contaminated soils Critical information has been collected and assembled under one cover to provide a convenient reference for anyone who must contend with this worldwide problem Remediation of Petroleum Contaminated Soils Biological Physical and Chemical Processes describes how to optimize the biodegradation of petroleum hydrocarbons in soil water systems It reports on the susceptibility of various petroleum components to biodegradation by microorganisms and considers all groups of microorganisms for their potential contributions The book also deals with problem areas such as the transport of organisms oxygen or nutrients throughout the subsurface as well as biodegradation of polynuclear aromatic hydrocarbons PAHs and nonaqueous phase liquids NAPLs In addition the book presents a variety of methods for monitoring bioremediation This reference discusses current soil remediation processes and includes many innovative approaches It also investigates means of controlling volatile organic compounds VOCs and leachate and addresses methods for collecting and treating these secondary waste streams The expansive coverage of this book will furnish readers with a wide range of options for developing treatment strategies and for customizing procedures for specific requirements

Twenty Years of Research and Development on Soil Pollution and Remediation in China Yongming Luo,Chen Tu,2018-01-17 This book reviews the progresses and achievements made in the past 20 years of research on soil pollution and remediation in China and presents 50 review and research articles from all over China including Hong Kong and Taiwan The authors include scientists engineers entrepreneurs and managers from 26 universities 18 institutes 4 leading enterprises and 2 government environmental protection departments The contents cover fundamental research on soil pollution and remediation technical development project demonstration policy and governance The polluted soil site types include farmland industrial sites mining areas and oilfields with heavy metals cadmium arsenic copper chromium mercury lead zinc nickel etc organic pollutants PAHs PCBs organochlorine pesticides phthalate esters halogenated hydrocarbons etc and metal organic mixed pollutants The remediation techniques mainly include physical and chemical remediation thermal desorption soil vapor extraction in situ advanced chemical oxidation solidification and stabilization phytoremediation phytostabilization phytoextraction by hyperaccumulators phyto prevention by low accumulation plants bioremediation microbial adsorption and immobilization microbial degradation microbe enhanced phytoremediation and combined remediation merging multiple technologies The governance and policy section mainly explores laws and regulations criteria and standards financial guarantees and the industrial market for soil environment and pollution prevention **Environmental Contamination and**

Remediation Hesham F Alharby, Yasir Anwar, Khalid Hakeem, 2019-01-17 This book provides an account of the major environmental contaminations present today and offers detailed insights into their potential remediation through bio based solutions Bringing together the work of various international experts in this field it contains comprehensive reviews on the mechanisms of bioremediation Moreover the book discusses the strategies by which bacteria and plants help in the decontamination of environmental pollutants As such it represents a valuable resource for a wide audience including environmental scientists biochemists soil scientists botanists agronomists and molecular biologists

Bioremediation of Soils Contaminated with Aromatic Compounds Hermann J. Heipieper, 2007-03-29 Environmental biotechnology which was in its infancy in the early 80 s has evolved thanks to the revolution brought about by molecular biology Multiple successes in the biological cleanup of civil and industrial wastewater and of hydrocarbon soil pollution demonstrate the vast power of clean technologies In addition the buildup of information on the activities of microorganisms as catalysts in all sorts of natural industrial and animal environments has flourished There is a continuing realization of the critical role of microbial processes in biological industrial and geological systems Since environmental biotechnology has matured it is ready to tackle bigger challenges the scaling up of many bioremediation systems still in progress the search for novel biocatalysts for industrial applications the continuing effort against common human life threatening processes such as antibiotic resistance the accumulation of hormone mimicking substances endocrine disrupters the deposition of air borne pesticides in the environment and the degradation of recalcitrant contaminants These endeavors will help prevent the contamination of food chains protect human life and allow for human activity and economic development that do not compromise environmental sustainability This volume includes the key lectures and participants contributions delivered at the NATO funded Advanced Research Workshop NATO ARW No 980838 Bioremediation of Soils Contaminated with Aromatic Compounds Effects of Rhizosphere Bioavailability Gene Regulation and Stress Adaptation held in Tartu Estonia from the 1 to the 3 of July 2004 and attended by participants from 15 countries

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 geomedia 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

Environmental Pollution of Paddy Soils Muhammad Zaffar Hashmi, Ajit Varma, 2018-09-25 The paddy field is a unique agro ecosystem and provides services such as food nutrient recycling and diverse habitats However chemical contamination of paddy soils has degraded the quality of this important ecosystem This book provides an overview of our current understanding of paddy soil pollution addressing topics such as the major types of pollutants in contaminated paddy soil ecosystems factors affecting the fate of pollutants in paddy soil biomonitoring approaches to assess the contaminated paddy soil the impact of chemicals on soil microbial diversity and climate change It

also covers arsenic and heavy metal pollution of paddy soils and their impact on rice quality Further new emerging contaminants such as antibiotics and antibiotics resistance genes ARGs in paddy soil and their impact on environmental health are also discussed The last chapters focus on the bioremediation approaches for the management of paddy soils

Microbial Rejuvenation of Polluted Environment Deepak G. Panpatte, Yogeshvari K. Jhala, 2021-01-15 Pollution is one of the most serious issues facing mankind and other life forms on earth Environmental pollution leads to the degradation of ecosystems loss of services economic losses and various other problems The eco friendliest approach to rejuvenating polluted ecosystems is with the help of microorganism based bioremediation Microorganisms are characterized by great biodiversity genetic and metabolic machinery and by their ability to survive even in extremely polluted environments As such they are and will remain the most important tools for restoring polluted ecosystems habitats This three volume book sheds light on the utilization of microorganisms and the latest technologies for cleaning up polluted sites It also discusses the remediation or degradation of various important pollutants such as pesticides wastewater plastics PAHs oil spills etc The book also explains the latest technologies used for the degradation of pollutants in several niche ecosystems Given its scope the book will be of interest to teachers researchers bioremediation scientists capacity builders and policymakers It also offers valuable additional reading material for undergraduate and graduate students of microbiology ecology soil science and the environmental sciences

Emerging Contaminants in the Environment Kondakindi Venkateswar Reddy, Naga Raju Maddela, A. Vamshi Krishna Reddy, 2026-01-01 Emerging contaminants ECs have become a critical environmental concern as evidence of their toxicity continues to grow Once overlooked these pollutants pose serious risks to water soil ecosystems and ultimately human health This contributed volume provides a comprehensive examination of ECs beginning with their classification changing nature and environmental pathways It then addresses the ecological risks documented in terrestrial aquatic and atmospheric systems highlighting the challenges of assessing their long term effects The final section surveys current and emerging remediation strategies including microbial bioremediation biosorbent based adsorption and advanced oxidation processes The book offers valuable insights for researchers practitioners and students engaged with environmental science and pollution control

Microbe Mediated Remediation of Environmental Contaminants Ajay Kumar, Vipin Kumar Singh, Pardeep Singh, Virendra Kumar Mishra, 2020-10-14 Microbe Mediated Remediation of Environmental Contaminants presents recent scientific progress in applying microbes for environmental management The book explores the current existing practical applications and provides information to help readers develop new practices and applications Edited by recognized leaders in the field this penetrating assessment of our progress to date in deploying microorganisms to the advantage of environmental management and biotechnology will be widely welcomed by those working in soil contamination management agriculture environment management soil microbiology and waste management The polluting effects on the world around us of soil erosion the unwanted migration of sediments chemical fertilizers and pesticides and the improper

treatment of human and animal wastes have resulted in serious environmental and social problems around the world problems which require us to look for solutions elsewhere than established physical and chemical technologies Often the answer lies in hybrid applications in which microbial methods are combined with physical and chemical ones When we remember that these highly effective microorganisms cultured for a variety of applications are but a tiny fraction of those to be found in the world around us we realize the vastness of the untapped and beneficial potential of microorganisms Explores microbial application redressing for soil and water contamination challenges Includes information on microbial synthesized nanomaterials for remediation of contaminated soils Presents a uniquely hybrid approach combining microbial interactions with other chemical and physical methods

Bio-organic Amendments for Heavy Metal Remediation Allah Ditta,Sajid Mehmood,Muhammad Imtiaz, Mike S Tu,2024-07-23 Bio organic Amendments for Heavy Metal Remediation Water soil and plant focuses on these core continuum media to explore remediation options using microbial organic and combined approached A volume in the Plant Biology Sustainability and Climate Change series this book offers a comprehensive view of techniques and approaches for addressing contamination by heavy metals As anthropogenic activities increasingly negatively impact natural resources there has been significant disturbance of water soil and plant continuum due to the accumulation of heavy metals The bioaccumulation of heavy metals in the food chain could pose life threatening effects on plants as well as humans and there is need to find effective and sustainable remediation options The application of bio organic amendments could serve as a sustainable solution to this problem Employing microbial organic and combined approaches to reduce the accumulation of heavy metals in the food chain ultimately would lead to the production of safe food for humans This book provides a comprehensive view of the challenge with a focus on the bioremediation of heavy metals contamination using ecotechnological approaches to protecting the soil water and plant continuum Highlights remediation techniques approaches for heavy metals under water soil and plant continuums Presents case studies for real world insights as well as current practices Includes regulatory aspects for ensuring safe implementation

Microbial Rejuvenation of Polluted Environment Deepak G. Panpatte,Yogeshvari K. Jhala,2021-01-18 Pollution is one of the most serious issues facing mankind and other life forms on earth Environmental pollution leads to the degradation of ecosystems loss of services economic losses and various other problems The eco friendliest approach to rejuvenating polluted ecosystems is with the help of microorganism based bioremediation Microorganisms are characterized by great biodiversity genetic and metabolic machinery and by their ability to survive even in extremely polluted environments As such they are and will remain the most important tools for restoring polluted ecosystems habitats This three volume book sheds light on the utilization of microorganisms and the latest technologies for cleaning up polluted sites It also discusses the remediation or degradation of various important pollutants such as pesticides wastewater plastics PAHs oil spills etc The book also explains the latest technologies used for the degradation of pollutants in several niche ecosystems Given its scope the book will be of interest to teachers researchers

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