

BIOTECHNOLOGY
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Bioremediation
*Principles and
Applications*

EDITED BY

Ronald L. Crawford and
Don L. Crawford



Bioremediation Principles And Applications

Ronald L. Crawford, Don L. Crawford



Bioremediation Principles And Applications:

Bioremediation Ronald L. Crawford,1996-11-21 Increased industrial and agricultural activity this century has led to vast quantities of the earth's soil and groundwater resources becoming contaminated with hazardous chemicals. Bioremediation provides a technology based on the use of living organisms usually bacteria and fungi to remove pollutants from soil and water preferably in situ. This approach which is potentially more cost effective than traditional techniques such as incineration of soils and carbon filtration of water requires an understanding of how organisms transform chemicals how they survive in polluted environments and how they should be employed in the field. This book examines these issues for many of the most serious and common environmental contaminants resulting in a volume which presents the most recent position on the application of bioremediation to the cleanup of polluted soil and water.

Bioremediation Ronald L. Crawford,Don L. Crawford,2005-09-08 Industrial and agricultural activity throughout this century has led to considerable contamination of soil and groundwater resources by hazardous chemicals. The technique of bioremediation uses living organisms usually bacteria and fungi to remove pollutants from soil and water with minimal disturbance to these environments. This approach which is potentially more cost effective than traditional techniques such as incineration of soils and carbon filtration of water requires an understanding of how organisms transform chemicals how they survive in polluted environments and how they can be used in the field. This book examines these issues for many of the most serious and common environmental contaminants presenting the most recent position on the application of bioremediation to polluted soil and water.

Fundamentals and Applications of Bioremediation SubhasK. Sikdar,2017-11-22 FROM THE INTRODUCTION This three volume set Bioremediation Principles and Practice provides state of the art description of advances in pollution treatment and reduction using biological means identify and address at a fundamental level broad scientific and technological areas that are unique to the subject or theme and that must be understood if advances are to be made and provide a comprehensive overview of new developments at the regulatory desk top bench scale pilot scale and full scale levels. The set covers all media air water and soil sediment and blends the talents knowledge and know how of academic industrial governmental and international contributors. The set addresses the removal of both hazardous and nonhazardous contaminants from the liquid solid and gas phase using biological processes. This includes the biological treatment of wastes of municipal and industrial origin bioremediation of leachates soils and sediments and biofiltration for contaminated gases.

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Biodegradation, Pollutants and Bioremediation Principles Ederio Dino Bidoia, Renato Nallin Montagnolli, 2021-04-19 This book presents a broad compendium of biodegradation research and discussions on the most up to date bioremediation strategies The most relevant microbiological biochemical and genetic concepts are presented alongside the fundamentals of bioremediation The topics include a wide variety of contaminant impacts evaluation key methodologies required to measure biodegradation and propose new bioremediation protocols as well as the handling of microbial communities related to such processes The selected collaborating authors are renowned for their microbiology expertise and will provide an in depth reference for students and specialists The contents provide a valuable source of information for researchers professionals and policy makers alike

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Biotechnologies for Wastewater Treatment and Resource Recovery Arun Lal

Srivastav, Inga Zinicovscaia, Liliana Cepoi, 2024-11-07 *Biotechnologies for Wastewater Treatment and Resource Recovery: Current Trends and Future Scope* presents up to date insights on the water crisis stemming from wastewater production. Edited by experts in the field, the book's chapters are structured around different types of bioremediation approaches: phytoremediation, myco remediation, bio stimulation, bio augmentation, rhizoremediation, etc. all applied in the context of wastewater treatment. This comprehensive resource equips students, researchers, scholars, and policymakers with a holistic understanding of wastewater treatment and resource recovery through bioremediation techniques. Abundant real world applications and case studies empower readers to make well informed decisions ensuring the efficient utilization of energy and efforts in addressing this critical issue. Covers a thorough analysis of various bioremediation approaches such as phytoremediation, myco remediation, bio stimulation, bio augmentation, rhizoremediation, etc. Offers the most up to date information on integrated wastewater treatment using biological and physicochemical methods. Includes case studies on bioremediation of domestic industrial wastewater for the elimination of heavy metals, emerging water contaminants, pesticides, microplastics, amongst others.

[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.

Microbial Insights into Wastewater Treatment and Environmental Sustainability Harshita Jain, Maulin P. Shah, 2025-11-06. *Microbial Insights into Wastewater Treatment and Environmental Sustainability* examines the way microorganisms are reshaping the way we tackle environmental challenges, offering practical and science driven strategies for wastewater remediation, pollution control, and resource recovery. Integrating microbiology, environmental science, and biotechnology, this volume reveals how microbial processes underpin sustainable solutions for ecosystem restoration and global environmental health. The book begins with foundational concepts such as the microbial ecology of polluted sites and mechanisms of pollutant sequestration, to specialized topics including arsenic bioremediation, microbe driven green nanotechnology, and biocontrol innovations. It further investigates plant-microbe partnerships that enhance environmental resilience and explores cutting edge molecular and biosensing techniques for real time environmental monitoring. Case studies highlight the transition from laboratory research to field scale applications, while forward looking sections consider microbial nanotechnology for sustainable energy generation and microbial strategies for waste valorization.

Key Features: Explains microbial roles in pollution mitigation and environmental recovery. Demonstrates sequestration, bioremediation, and nanotechnology based microbial innovations. Integrates molecular tools and biosensors for environmental health assessment. Applies microbial strategies to wastewater treatment, energy production, and waste management. Highlights real world case studies linking theory to practice. Incorporates multidisciplinary insights from global research contributors. Advances sustainable development through microbial resource recovery.

Biotechnological

Applications in Industrial Waste Valorization Vineet Kumar, Pradeep Verma, 2025-04-09 This book overviews the cutting edge applications of biotechnological tools and techniques in valorizing industrial waste to achieve the United Nations Sustainable Development Goals. It provides comprehensive insights into the latest research technologies, processes, and case studies, making it an invaluable resource for researchers, professionals, policymakers, and students interested in waste management, bioenergy recovery, and sustainable development. By transforming industrial waste into high value products, this book fosters a circular economy and lessens environmental strain, bridging the gap between academia and industry with practical solutions and innovative strategies. It seeks to fill the gap between academics and industry by outlining workable solutions and discussing cutting edge tactics that can be used in realistic situations. While providing an in depth exploration of advanced biotechnological techniques being widely used to valorize industrial waste, the book covers a wide range of issues that help academics and professionals efficiently deal with various waste streams such as microbial bioremediation, renewable energy resource recovery, enzymatic degradation, metabolic engineering, bioprocess development, and others. The book intends to motivate and guide students, researchers, practitioners, and policymakers in pursuing sustainable waste management strategies by exhibiting the revolutionary power of microbial technology. The concise and impartial content structure will also benefit corporate researchers. It is an essential resource for anyone interested in the intersection of biotechnology and environmental sustainability, offering insights that are both academically rigorous and practically applicable.

Soil and Groundwater Remediation Chunlong Zhang, 2019-10-30 An introduction to the principles and practices of soil and groundwater remediation. Soil and Groundwater Remediation offers a comprehensive and up to date review of the principles, practices, and concepts of sustainability of soil and groundwater remediation. The book starts with an overview of the importance of groundwater resource quality, contaminant sources, types, and the scope of soil and groundwater remediation. It then provides the essential components of soil and groundwater remediation with easy to understand design equations, calculations, and the practical applications. The book contains information on remediation basics such as subsurface chemical behaviors, soil and groundwater hydrology, and characterization, regulations, cost analysis, and risk assessment. The author explores various conventional and innovative remediation technologies including pump and treat, soil vapor extraction, bioremediation, incineration, thermally enhanced techniques, soil washing, flushing, and permeable reactive barriers. The book also examines the modeling of groundwater flow and contaminant transport in saturated and unsaturated zones. This important book presents the current challenges of remediation practices. Includes up to date information about the low cost, risk based, sustainable remediation practices, as well as institutional control and management. Offers a balanced mix of the principles, practices, and sustainable concepts in soil and groundwater remediation. Contains learning objectives, discussions of key theories, and example problems. Provides illustrative case studies and recent research when remediation techniques are introduced. Written for undergraduate seniors and graduate students in natural resource

earth science environmental science engineering and environmental management Soil and Groundwater Remediation is an authoritative guide to the principles and components of soil and groundwater remediation that is filled with worked and practice problems

Science of Synthesis: Biocatalysis in Organic Synthesis Vol. 3 Kurt Faber, Wolf-Dieter Fessner, Nicholas J. Turner, 2015-03-11 The three Science of Synthesis volumes on Biocatalysis in Organic Synthesis present a broad contemporary overview on the state of the art in enzymatic methods for asymmetric synthesis suitable for academics and industrial researchers working in the field of organic synthesis The goal is to start a new wave of enthusiasm for biocatalysis in the broader community and to give an overview of the field Biocatalysis in Organic Synthesis offers critical reviews of organic transformations by experts including experimental procedures The organization is based on the type of reaction performed under biocatalysis Volume 3 begins with oxidation A chapter on enzyme catalyzed dihydroxylation is followed by reviews of alkane oxidation Oxidations of alcohols carbonyl compounds and heteroatoms are covered as are halogenations The use of biocatalysts in total synthesis cascade reactions and large scale industrial applications is considered Finally emerging trends are discussed

Encyclopedia of Environmental Health, 2019-08-22 Encyclopedia of Environmental Health Second Edition Six Volume Set presents the newest release in this fundamental reference that updates and broadens the umbrella of environmental health especially social and environmental health for its readers There is ongoing revolution in governance policies and intervention strategies aimed at evolving changes in health disparities disease burden trans boundary transport and health hazards This new edition reflects these realities mapping new directions in the field that include how to minimize threats and develop new scientific paradigms that address emerging local national and global environmental concerns Represents a one stop resource for scientifically reliable information on environmental health Fills a critical gap with information on one of the most rapidly growing scientific fields of our time Provides comparative approaches to environmental health practice and research in different countries and regions of the world Covers issues behind specific questions and describes the best available scientific methods for environmental risk assessment

Environmental Metagenomics, Water Quality and Suggested Remediation Measures of Polluted Waters: A Combined Approach Inderjeet Tyagi, Vikas Kumar, Rama Rao Karri, 2024-03-26 Environmental Metagenomics Water Quality and Suggested Remediation Measures of Polluted Waters A Combined Approach is a reference handbook for scientists engineers and early career researchers seeking guidance in the areas of water quality and remediation studies The comprehensive book which includes case studies and applications from a range of contributors in the field offers an essential resource in the science of water quality assessment Includes a range of applications and case studies in wetland riverine drinking and groundwater metagenomics along with approaches for the remediation of pollutants from wastewater Offers the latest updates on environmental metagenomics and its correlation with water environments remediation measures and SDGs Provides key contributions from global researchers in the fields of water chemistry environmental science engineering and public health

Journal of Scientific & Industrial Research ,1999 **Bioremediation Technologies** Robert L. Irvine,Subhas K. Sikdar,1998-01-08 FROM THE INTRODUCTION This three volume series Bioremediation Principles and Practice provides state of the art description of advances in pollution treatment and reduction using biological means identify and address at a fundamental level broad scientific and technological areas that are unique to the subject or theme and that must be understood if advances are to be made and provide a comprehensive overview of new developments at the regulatory desk top bench scale pilot scale and full scale levels The series covers all media air water and soil sediment and blends the talents knowledge and know how of academic industrial governmental and international contributors The series addresses the removal of both hazardous and nonhazardous contaminants from the liquid solid and gas phase using biological processes This includes the biological treatment of wastes of municipal and industrial origin bioremediation of leachates soils and sediments and biofiltration for contaminated gases The Encyclopedia of Bioprocess Technology Michael C. Flickinger,Stephen W. Drew,1999 *Abiotic Stress Management for Resilient Agriculture* Paramjit Singh Minhas,Jagadish Rane,Ratna Kumar Pasala,2017-10-06 This book offers a state of the art overview of on abiotic stresses in terms of the challenges scope and opportunities coping strategies for adaptation and mitigation using novel tools for building resilience in agricultural crops and livestock as well as for policy implementation Divided into four major parts advances and prospects for understanding stress environments adaptation and mitigation options crop based mitigation strategies and mitigation options in animal husbandry the book focuses on problem solving approaches and techniques that are essential for the medium to long term sustainability of agricultural production systems The synthesis and integration of knowledge and experiences of specialists from different disciplines offers new perspectives in the versatile field of abiotic stress management and as such is useful for various stakeholders including agricultural students scientists environmentalists policymakers and social scientists **Biotechnology of Biopolymers** Alexander Steinbüchel,Yoshiharu Doi,2005 The best of the Biopolymers series Since only a small number of individuals can afford to buy the entire Biopolymers series or would simply prefer a broader overview this handbook contains the very best of biotechnology with articles taken directly from Alexander Steinbüchel s successful series As such these two volumes cover the entire range of biopolymers and not just one chemical class with the focus on the biotechnological systems and processes under development for a cost effective production isolation and modification of biopolymers Furthermore it covers the fundamentals of their chemical and physical properties their occurrence metabolism biosynthesis and biodegradation as well as their industrial applications as renewable resources novel materials and technical applications With its contributions similarly structured for easy data comparison and an extensive table of patents this is an ideal reference for medium sized laboratories and libraries

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