

Bioremediation Principles

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Bioremediation Principles

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 ...

Principles and Applications

Bioremediation of Diesel Fuel Contaminated Soil at a Former ... Soil Remediation in Railroad Yards - How Clean is Clean? In Principles and Practices for Diesel Contaminated Soils, Volume III, Edited ...

Marleen Troy Publications

RNA-based systems, molecular machines and bio-inspired devices are the future of the bioeconomy. Advancing these technologies from discovery to market can be elusive. The success of RNA vaccines ...

Pairie hub to power the bioeconomy with next-generation bio-inspired technologies

Principles of methods and techniques in endocrinological ... as well as discussing their use in various processes including industrial fermentation, bioremediation, chemical synthesis and protein ...

Department of Biological Sciences

To provide the student with an understanding of the basic microbiology principles that have provided the foundation ... of molecular genetics has had a significant impact on health, bioremediation, ...

Thematic Sequences in Microbiology

Principles of Ecology, Evolutionary Biology ... conservation biology, public health, toxicology, bioremediation, and biological assessment of environmental quality.

Ecology, Evolution and Organismal Option

Principles underlying these methods along with the interpretation ... Both established and emerging remediation technologies including: bioremediation, intrinsic remediation, soil vapor extraction ...

Course Listing in Civil & Environmental Engineering

After researching the bioremediation capability of a combination of vetiver plant, *Serratia marcescens*, and *Burkholderia cepacia* at Tech and working as a microbiology intern at (believe it or not) a ...

Infectious Disease

Graduate education in Environmental Engineering develops a strong foundation in science and engineering principles which are applied to ... bio-waste composting and bioremediation at the ...

Environmental Engineering

Students will use ecological principles and policy analysis to examine conflicts ... and marine and freshwater communities, in bioremediation and chemical transformations. Prerequisites: One 300-level ...

Ecology and Evolutionary Biology

ACP accomplishes its mission by practicing the fundamental principles of working safely ... such as phytoremediation (using natural vegetative processes), bioremediation (using naturally occurring ...

Area Completion Projects

and biogeochemical cycles leading to the discovery of principles used for societal applications such as water quality management and bioremediation. Laboratory introduces research tools used in the ...

Miami Microbiology Courses

Applications of these principles will be demonstrated in subject areas including biogeochemical cycling, bioremediation, contaminant fate and transport, salt-affected soils and wetland processes.

2014-15 Course Offerings for EES Degree

Theory and practice of advanced biological treatment processes for municipal and industrial wastewaters, sludges, groundwater bioremediation and solid waste. Emphasis is on fundamental principles ...

Interdisciplinary PhD in Hydrologic Sciences

In addition, you will be taking a block of engineering classes to get your feet wet in applying science principles to solving real-life ... industries to focus on problems in food processing. ...

College of Engineering and Applied Science

"Our findings have implications for a wide range of disciplines, including forensics, contagious disease control, or bioremediation of wasted chewing gum residues," Leila Satari, Alba Guillén ...

Research on beards: wads of gum wins 2021 Ig Nobel prizes

People Search (Faculty, Staff, Grad Students) The ESP Employee Directory was moved to improve information security for campus contact information. You can now reach the directory through your ...

Presents the most recent advances concerning the use of microorganisms to degrade environmental pollution.

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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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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The focus of this new text is the use of biological methods and processes for the remediation of contaminated soils and aquifers. Bioremediation is a rapidly changing and expanding area of environmental engineering, and this text emphasizes the characteristics of organic compounds and factors which make organics amenable to biological treatment. Engineers working in soil and groundwater remediation in general, and bioremediation in particular, must deal with exacting regulations, serious public health issues, and a great deal of uncertainty related to knowledge of actual conditions in subsurface systems. Professional judgement and integrity are the most important tools in solving most remediation problems. *Bioremediation Principles* will provide a technical foundation for understanding and applying bioremediation concepts rather than serve as a comprehensive handbook for system design.

In situ bioremediation--the use of microorganisms for on-site removal of contaminants--is potentially cheaper, faster, and safer than conventional cleanup methods. But in situ bioremediation is also clouded in uncertainty, controversy, and mistrust. This volume from the National Research Council provides direction for decisionmakers and offers detailed and readable explanations of the processes involved in in situ bioremediation, circumstances in which it is best used, and methods of measurement, field testing, and modeling to evaluate the results of bioremediation projects. Bioremediation experts representing academic research, field practice, regulation, and industry provide accessible information and case examples; they explore how in situ bioremediation works, how it has developed since its first commercial use in 1972, and what research and education efforts are recommended for the future. The volume includes a series of perspective papers. The book will be immediately useful to policymakers, regulators, bioremediation practitioners and purchasers, environmental groups, concerned citizens, faculty, and students.

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