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The technique of bioremediation
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which is ...

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My group also extends the
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Theory and practice of advanced biological treatment processes for municipal and industrial wastewaters, sludges, groundwater bioremediation and solid waste. Emphasis is on

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fundamental principles ...

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The company ' s best practice principles are bundled in the tool ... being employed under the agreement include reverse osmosis, bioremediation and ultrafiltration. By going the outsourcing ...

PPPs can resuscitate
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include communications, ecosystem science, social and economic principles, ecological modeling ... phytoremediation, bioremediation, soil and water pollution, solid and ...

Water Programs at ESF

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, ...

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Bioremediation provides a technology based on the use of living organisms, usually bacteria and fungi, to remove pollutants from soil and water, preferably in

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situ. This approach, which is potentially ...

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

"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

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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

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biofiltration for contaminated gases."--Provided by publisher.

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The use of biological methods and processes for the remediation of contaminated soils and aquifers is the focus of this text, which emphasizes the characteristics of organic compounds and factors which make organics amenable to biological treatment.

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

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

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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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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

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contaminants, presenting the most recent position on the application of bioremediation to polluted soil and water.

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

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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.

Over the last three decades there has been increasing global concern over the public health impacts attributed to environmental pollution, in particular, the global burden of disease. The World Health Organization (WHO) estimates that about a quarter of the diseases facing mankind today

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occur due to prolonged exposure to environmental pollution. Most of these environment related diseases are however not easily detected and may be acquired during childhood and manifested later in adulthood. Improper management of solid waste is one of the main causes of environmental pollution and degradation in many cities, especially in developing countries. Many of these cities lack solid waste regulations and proper disposal facilities, including for harmful waste. Such waste may be infectious, toxic or radioactive. Bioremediation is the use of microorganisms for the degradation of hazardous chemicals in soil, sediments, water, or other contaminated

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materials. Environmental Protection Agency (EPA) uses many methods to clean up pollution at Superfund and other sites. Some, like bioremediation, are considered new or innovative. Such methods can be quicker and cheaper than more common methods.

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

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