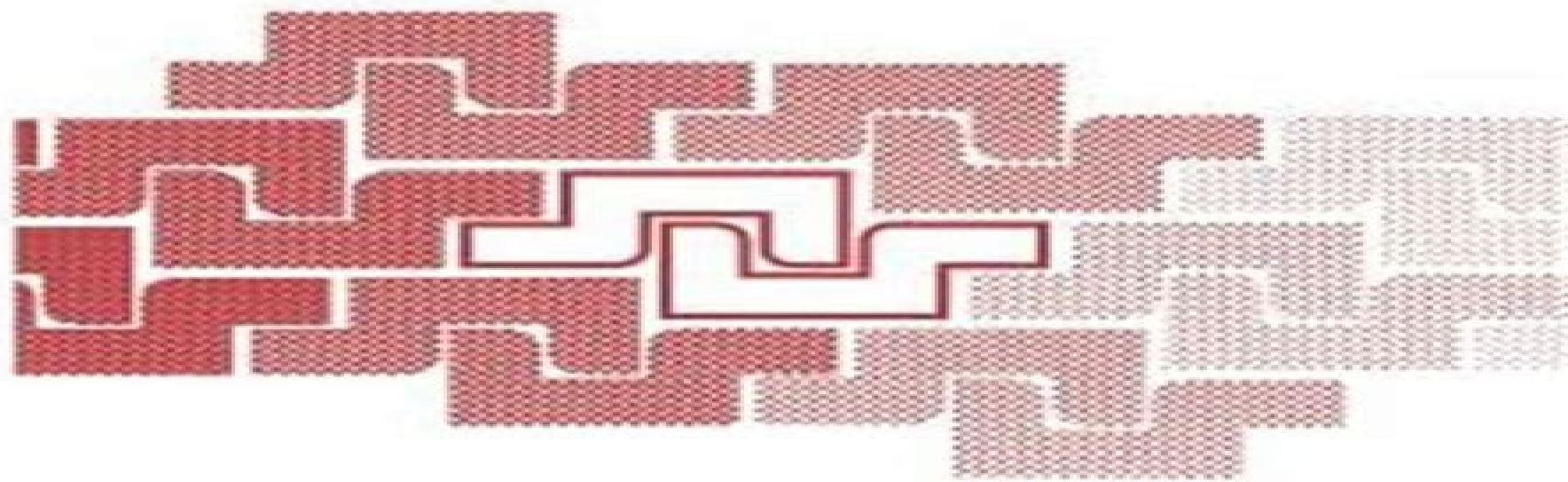




Microbial Degradation Processes in Radioactive Waste Repository and in Nuclear Fuel Storage Areas

Edited by

J. H. Wolfram, R. D. Rogers
and L. G. Gazso

NATO ASI Series

Microbial Processes In Radioactive Wast

**S. Norris,J. Bruno,M. Cathelineau,P.
Delage,C. Fairhurst,E.C. Gaucher,E.H.
Höhn,A. Kalinichev,P. Lalieux,P. Sellin**

Microbial Processes In Radioactive Wast:

Microbial Processes in Radioactive Waste Disposal Karsten Pedersen, 2000 **Microbial Degradation Processes in Radioactive Waste Repository and in Nuclear Fuel Storage Areas** J.H. Wolfram, Robin D. Rogers, Lajos G. Gázso, 1997-03-31 Purpose of the Workshop In the spirit of enhancing developments in science and technology by facilitating international scientific cooperation the Science Committee of NATO is sponsoring AR W s in several selected priority areas The objective of this workshop was to discuss what microbial mediated problems have been experienced in the area of nuclear waste management and spent fuel storage Long term storage of high level wastes in repositories is just starting in some countries However low and medium level wastes have been stored for several decades In the area of spent fuel interim storage has been extended at many locations far beyond the intended time It was a priority of the workshop to examine and discuss what deleterious effects have been observed under these storage conditions or under conditions used in simulated trial tests for predicting material performance under the storage conditions For example one chronic problem that was discussed was possibility that microbial influenced corrosion MIC could be taking place in the wet storage of spent fuel thereby initiating or accelerating the process of corrosion Another discussion in the area of waste forms focused on the presence of biofilms which may be breaking down the structure of the waste form and thereby jeopardizing its integrity The meeting focused on discussing the observations and data collected relating to problems encountered in the storage of these types of wastes and sharing this information with others that have not monitored their facilities for similar problems *The Microbiology of Nuclear Waste Disposal* Jonathan R. Lloyd, Andrea Cherkouk, 2020-10-22 The Microbiology of Nuclear Waste Disposal is a state of the art reference featuring contributions focusing on the impact of microbes on the safe long term disposal of nuclear waste This book is the first to cover this important emerging topic and is written for a wide audience encompassing regulators implementers academics and other stakeholders The book is also of interest to those working on the wider exploitation of the subsurface such as bioremediation carbon capture and storage geothermal energy and water quality Planning for suitable facilities in the U S Europe and Asia has been based mainly on knowledge from the geological and physical sciences However recent studies have shown that microbial life can proliferate in the inhospitable environments associated with radioactive waste disposal and can control the long term fate of nuclear materials This can have beneficial and damaging impacts which need to be quantified Encompasses expertise from both the bio and geo disciplines aiming to foster important collaborations across this disciplinary divide Includes reviews and research papers from leading groups in the field Provides helpful guidance in light of plans progressing worldwide for geological disposal facilities Includes timely research for planning and safety case development Evaluation of Microbial Processes in Radioactive Waste Disposal , 1986 The approach taken was to ascertain the likelihood of microbes being present in the disposal trench Then the extent of general microbial activity was discussed in relation to the environmental conditions thought to exist within the disposal trench

Based on the composition of the waste the biochemical pathways and end products of probable importance were identified To encompass a range of outcomes two scenarios were considered one in which total containment was assumed and a second worst case scenario Their World: A Diversity of Microbial Environments Christon J. Hurst, 2016-05-02 This volume summarizes recent advances in environmental microbiology by providing fascinating insights into the diversity of microbial life that exists on our planet The first two chapters present theoretical perspectives that help to consolidate our understanding of evolution as an adaptive process by which the niche and habitat of each species develop in a manner that interconnects individual components of an ecosystem This results in communities that function by simultaneously coordinating their metabolic and physiologic actions The third contribution addresses the fossil record of microorganisms and the subsequent chapters then introduce the microbial life that currently exists in various terrestrial and aquatic ecosystems Coverage of the geosphere addresses endolithic organisms life in caves and the deep continental biosphere including how subsurface microbial life may impact spent nuclear fuel repositories The discussion of the hydrosphere includes hypersaline environments and arctic food chains By better understanding examples from the micro biosphere we can elucidate the many ways in which the niches of different species both large and small interconnect within the overlapping habitats of this world which is governed by its microorganisms

Removal of Emerging Contaminants Through Microbial Processes Maulin P Shah, 2020-10-14 The abundance of organic pollutants found in wastewater affect urban surface waters Traditional wastewater management technologies focus on the removal of suspended solids nutrients and bacteria however new pollutants such as synthetic or naturally occurring chemicals are often not monitored in the environment despite having the potential to enter the environment and cause adverse ecological and human health effects Collectively referred to as emerging contaminants they are mostly derived from domestic activities and occur in trace concentrations ranging from pico to micrograms per liter Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected causing contamination of receiving water This in turn leads to the need for advanced wastewater treatment processes capable of removing environmental contaminants to ensure safe fresh water sources This book provides an up to date overview of the current bioremediation strategies including their limitations challenges and their potential application to remove environmental pollutants It also introduces the latest trends and advances in environmental bioremediation and presents the state of the art in biological and chemical wastewater treatment processes As such it will appeal to researchers and policy makers as well as undergraduate and graduate environmental sciences students Nuclear Waste Cleanup Technologies and Opportunities Robert Noyes, 1995-12-31 One of the largest most complicated and expensive environmental problems in the United States is the cleanup of nuclear wastes The US Department of Energy DOE has approximately 4 000 contaminated sites covering tens of thousands of acres and replete with contaminated hazardous or radioactive waste soil or structures In addition to high level waste it has more than

250 000 cubic meters of transuranic waste and millions of cubic meters of low level radio active waste In addition DOE is responsible for thousands of facilities awaiting decontamination decommissioning and dismantling DOE and its predecessors have been involved in the management of radioactive wastes since 1943 when such wastes were first generated in significant quantities as by products of nuclear weapons production Waste connected with DOE s nuclear weapons complex has been accumulating as a result of various operations spanning over five decades The cost estimates for nuclear waste cleanup in the United States have been rapidly rising It has recently been estimated to be in a range from 200 to 350 billion Costs could vary considerably based on future philosophies as to whether to isolate certain sites the iron fence philosophy or clean them up to a pristine condition the greenfields philosophy Funding will also be based on Congressional action that may reduce environmental cleanup based on budget considerations

Clays in Natural and Engineered Barriers for Radioactive Waste Confinement S. Norris,J. Bruno,M. Cathelineau,P. Delage,C. Fairhurst,E.C. Gaucher,E.H. Höhn,A. Kalinichev,P. Lalieux,P. Sellin ,2014-10-24 This Special Publication contains 43 scientific studies presented at the 5th conference on Clays in natural and engineered barriers for radioactive waste confinement held in Montpellier France in 2012 The conference and this resulting volume cover all the aspects of clay characterization and behaviour considered at various temporal and spatial scales relevant to the confinement of radionuclides in clay from basic phenomenological process descriptions to the global understanding of performance and safety at repository and geological scales Special emphasis has been given to the modelling of processes occurring at the mineralogical level within the clay barriers The papers in this Special Publication consider research into argillaceous media under the following topic areas large scale geological characterization clay based concept large scale experiments hydrodynamical modelling geochemistry geomechanics mass transfer gas transfer mass transfer mechanisms The collection of different topics presented in this Special Publication demonstrates the diversity of geological repository research

Radioactive Pollutant Nitish Kumar,2024-12-10 This book sheds light on the global environmental issue and proposes solutions to contamination through multi disciplinary approaches Radioactivity occurs naturally Ionizing radiation has always been a threat to humans and all other living things on earth While the average global readings could be a suitable benchmark for what must be deemed normal the natural level of radiation exposure varies by around an order of magnitude for different locations of the earth Regardless of whether this degree of radiation exposure qualifies as innocuous it cannot be avoided because some diseases may be caused by exposure to naturally occurring radiation As a result these natural exposures serve as the foundation for and comparison point for radiation protection principles such as dose limits or limitations The majority of the ionizing radiation that the world s population is exposed to comes from natural sources The public receives maximum doses from nuclear sites that are now in normal operation those are typically two orders of magnitude below the background radiation In industrialized nations medical uses of radioactivity and ionizing radiation result in mean doses that are comparable to those from natural radiation but individual doses vary

greatly This edited book brings together a diverse group of researchers to address the challenges posed by global mass poisoning caused by radionuclides This book contains three sections First section describes the different sources of radioactive pollutant in the environment Second section explains the health risk linked to radioactive pollutant Third section addresses sustainable remediation strategies of radioactive waste and the potential applications of recent biological technology in providing solutions This book is a valuable resource to students academics researchers and environmental professionals doing field work on management of radioactive waste throughout the world

Containment of High-Level Radioactive and Hazardous Solid Wastes with Clay Barriers Raymond N. Yong,Roland Pusch,Masashi Nakano,2010-05-31

One of the principal objections to or problems with the use of nuclear fuel is that a proven method for safe disposal of spent nuclear fuel has yet to be established The central focus of most schemes underway to dispose of these high level radioactive wastes relies on clay based buffers and barriers to isolate spent fuel canisters in borehole

Microbial Biodegradation and Bioremediation Surajit Das,Hirak Ranjan Dash,2021-11-24 *Microbial Biodegradation and Bioremediation Techniques and Case Studies for Environmental Pollution Second Edition* describes the successful application of microbes and their derivatives for bioremediation of potentially toxic and relatively novel compounds in the environment Our natural biodiversity and environment is in danger due to the release of continuously emerging potential pollutants by anthropogenic activities Though many attempts have been made to eradicate and remediate these noxious elements thousands of xenobiotics of relatively new entities emerge every day thus worsening the situation Primitive microorganisms are highly adaptable to toxic environments and can reduce the load of toxic elements by their successful transformation and remediation This completely updated new edition presents many new technologies and techniques and includes theoretical context and case studies in every chapter *Microbial Biodegradation and Bioremediation Techniques and Case Studies for Environmental Pollution Second Edition* serves as a single source reference and encompasses all categories of pollutants and their applications in a convenient comprehensive format for researchers in environmental science and engineering pollution environmental microbiology and biotechnology Describes many novel approaches of microbial bioremediation including genetic engineering metagenomics microbial fuel cell technology biosurfactants and biofilm based bioremediation Introduces relatively new hazardous elements and their bioremediation practices including oil spills military waste water greenhouse gases polythene wastes and more Provides the most advanced techniques in the field of bioremediation including insilico approach microbes as pollution indicators use of bioreactors techniques of pollution monitoring and more Completely updated and expanded to include topics and techniques such as genetically engineered bacteria environmental health nanoremediation heavy metals contaminant transport and in situ and ex situ methods Includes theoretical context and case studies within each chapter

Radioactive Waste Management ,1981 **Advances in Water Pollution Research** B. A. Southgate,2013-10-02 *Advances in Water Pollution Research Volume 1* contains the proceedings of the International

Conference on Advances in Water Pollution Research held in London in September 1962 The conference provided a forum for assessing advances in water pollution research and tackled a wide array of topics from biological extraction and accumulation in stream self purification to recovery and identification of organics in water as well as the effect of heated effluents on fish and the role of aquatic actinomycetes in self purification of freshwater streams Comprised of 16 chapters this volume begins with a description of a working theory of the mode of action of biological extraction and accumulation in stream self purification The discussion then turns to the oxygen regime and the processes of self purification in reservoirs with retarded discharge the effect of current on the composition of biocenoses in flowing water streams and prediction of stream re aeration rates Subsequent chapters focus on a small watercourse accidentally polluted by phenol compounds determination and charting of waste load in a flowing stream effects of domestic and industrial discharges on the ecology of riffles in Midland streams and effects of plants and animals on the conditions in freshwater streams with particular reference to their oxygen balance This book will appeal to practitioners and research workers with interest in the problems of water pollution

Selected Water Resources Abstracts, 1991 *Soil Reclamation Processes Microbiological Analyses and Applications* Robert L. Tate, Donald A. Klein, 2020-08-17 This book provides an assessment of the understanding of soil microbiology and biochemistry as part of reclamation processes It attempts to assemble more specialized literature on reclamation where application of microbiological concepts has provided the understanding of the process

Interactions of Microorganisms with Radionuclides M.J. Keith-Roach, F.R. Livens, 2002-04-22 Many environmental processes are influenced if not controlled by microbial action and it is becoming increasingly important to develop an understanding of microbial roles in geochemistry This book brings together state of the art research into microbiological processes and the extent to which they affect or can be used to control radioactive elements The basic principles and fundamental mechanisms by which microbes and radionuclides interact are outlined the methodology described potential microbial influences on waste repositories examined direct and indirect effects on transport both on local and global scales considered and potential technological applications identified The book is directed towards advanced undergraduate students postgraduates and researchers in the areas of environmental radioactivity environmental microbiology biotechnology and radioactive waste management It will also be of interest to regulators policy makers and non governmental organisations This novel and timely book offers a fully integrated approach to a topical international issue

Microbes Based Approaches for the Management of Hazardous Contaminants Ajay Kumar, Livleen Shukla, Joginder Singh, Luiz Fernando Romanholo Ferreira, 2024-09-11 Learn the various microbiological aspects one deals with in environment management and the remediation of toxic contaminants in the environment In recent years the accumulation of hazardous contaminants has caused a broad based deterioration in global environmental quality These have had wide ranging negative social impacts affecting climate soil and water ecosystems and more As traditional methods of contaminant mitigation have proven inadequate to the task microbial based

remediation offers the clearest most environmentally friendly path forward for this crucial aspect of global environmental stewardship **Microbes Based Approaches for the Management of Hazardous Contaminants** offers comprehensive coverage of novel and indigenous microbes and their applications in contaminant mitigation Surveying all the major microbial products and methods for degrading and remediating hazardous pollutants it offers a key tool in the fight against global environmental degradation The result is a cutting edge introduction to an essential subject **Microbes Based Approaches for the Management of Hazardous Contaminants** will also find Current and future approaches to microbial degradation Detailed discussion of biofilms exopolysaccharides enzymes metabolites and many more Coverage of metabolic engineering as an alternative strategy **Microbes Based Approaches for the Management of Hazardous Contaminants** is ideal for those working in the field for the application of microbes in the remediation of hazardous pollutants and environment management particularly those interested in environmental sciences microbiology and microbial technology environmental biotechnology and molecular biology

Environmental Sustainability and Biotechnology: Opportunities and Challenges Naveen Kumar Arora,Piyush Pandey,Jitendra Mishra,2025-08-18 This book assembles a global perspective on the challenges and opportunities to achieve environmental sustainability through biotechnology The book highlights agenda for utilizing scientific knowledge including the use of beneficial microbes and biotechnological approaches for combating key global issues related to environmental sustainability Additionally to evolve adaptive processes and mitigation approaches certain novel insights on resilience mechanisms sustainability principles and bio inputs are discussed The book also showcases advanced technologies in the area of biotechnology including use of microbes in biodegradation bioremediation sustainable agriculture and food security This book is valuable for environmentalists ecologists policy makers and industrial entrepreneurs The book is also a reference source for researchers undergraduate and graduate students of the environment science and biotechnology fields

Microbial Effects in the Context of Past German Safety Cases (KIT Scientific Reports ; 7744) Kienzler, Bernhard,Swanson, Juliet S.,2017-10-19

Radioactive Waste Processing and Disposal U.S. Nuclear Regulatory Commission,1980

Enjoying the Track of Phrase: An Psychological Symphony within **Microbial Processes In Radioactive Wast**

In some sort of eaten by displays and the ceaseless chatter of quick connection, the melodic splendor and mental symphony developed by the written word usually fade into the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, set within the pages of **Microbial Processes In Radioactive Wast** a wonderful literary treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that interesting masterpiece conducts viewers on a mental journey, well unraveling the hidden tunes and profound affect resonating within each carefully crafted phrase. Within the depths with this moving examination, we shall discover the book is key harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents Microbial Processes In Radioactive Wast

1. Understanding the eBook Microbial Processes In Radioactive Wast
 - The Rise of Digital Reading Microbial Processes In Radioactive Wast
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbial Processes In Radioactive Wast
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbial Processes In Radioactive Wast
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbial Processes In Radioactive Wast
 - Personalized Recommendations

- Microbial Processes In Radioactive Waste User Reviews and Ratings
- Microbial Processes In Radioactive Waste and Bestseller Lists
- 5. Accessing Microbial Processes In Radioactive Waste Free and Paid eBooks
 - Microbial Processes In Radioactive Waste Public Domain eBooks
 - Microbial Processes In Radioactive Waste eBook Subscription Services
 - Microbial Processes In Radioactive Waste Budget-Friendly Options
- 6. Navigating Microbial Processes In Radioactive Waste eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbial Processes In Radioactive Waste Compatibility with Devices
 - Microbial Processes In Radioactive Waste Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbial Processes In Radioactive Waste
 - Highlighting and Note-Taking Microbial Processes In Radioactive Waste
 - Interactive Elements Microbial Processes In Radioactive Waste
- 8. Staying Engaged with Microbial Processes In Radioactive Waste
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbial Processes In Radioactive Waste
- 9. Balancing eBooks and Physical Books Microbial Processes In Radioactive Waste
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbial Processes In Radioactive Waste
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Microbial Processes In Radioactive Waste
 - Setting Reading Goals Microbial Processes In Radioactive Waste
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Microbial Processes In Radioactive Waste
 - Fact-Checking eBook Content of Microbial Processes In Radioactive Waste

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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