SITE REMEDIATION TECHNOLOGY

DESIGN & APPLICATION

STABILIZATION/ SOLIDIFICATION

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Innovative Site Remediation Technology, Design & Application, Volume 5 William C. Anderson, 1997

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Innovative Technology Options for Brownfields Investigation and Cleanup, 2001 EPA-542/B., EPA 200-B., 1996-10

EPA National Publications Catalog United States. Environmental Protection Agency, 2003 Innovative Site Remediation Technology William C. Anderson, 1997 **Geoenvironmental Engineering** Hari D. Sharma, Krishna R. Reddy, 2004-05-20 Geoenvironmental Engineering covers the application of basic geological and hydrological science including soil and rock mechanics and groundwater hydrology to any number of different environmental problems Includes end of chapter summaries design examples and worked out numerical problems and problem questions Offers thorough coverage of the role of geotechnical engineering in a wide variety of environmental issues Addresses such issues as remediation of in situ hazardous waste the monitoring and control of groundwater pollution and the creation and management of landfills and other above ground and in situ waste containment systems Environmental Cleanup at Navy Facilities National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Environmental Remediation at Naval Facilities, 2003-08-16 The number of hazardous waste sites across the United States has grown to approximately 217 000 with billions of cubic yards of soil sediment and groundwater plumes requiring remediation Sites contaminated with recalcitrant contaminants or with complex hydrogeological features have proved to be a significant challenge to cleanup on every level technologically financially legally and sociopolitically Like many federal agencies the Navy is a responsible party with a large liability in hazardous waste sites Environmental Cleanup at Navy Facilitites applies the concepts of adaptive management to complex high risk hazardous waste sites that are typical of the military EPA and other responsible parties. The report suggests ways to make forward progress at sites with recalcitrant contamination that have stalled prior to meeting cleanup goals This encompasses more rigorous data collection and analysis consideration of alternative treatment technologies and comprehensive long term stewardship Environmental Remediation Technologies for Metal-Contaminated Soils Hiroshi Hasegawa, Ismail Md. Mofizur Rahman, Mohammad Azizur Rahman, 2015-09-28 This book presents a comprehensive and detailed description of remediation techniques for metal contaminated soils derived from both natural processes and anthropogenic activities Using a methodical step by step presentation the book starts by overviewing the origin of toxicants and the correlated comparative extent of contamination to the environment The legal provisions as proposed or applied in different countries are then discussed to explain the global regulatory situation regarding soil contamination and the extent of consequent concern The core part of this publication describes the major techniques for in situ or ex situ treatment of the contaminated soil to meet the regulatory limits Finally risk evaluation is

incorporated giving special attention to possible impacts during or after implementation of the remediation strategies. The intrusion of metals in soils mostly occurs from various anthropogenic activities e.g. agricultural practices industrial activities and municipal waste disposal. The volumes of metal contaminated soil are becoming greater than before and are ever increasing due to rapid urbanization intensified industrialization and or population booms in certain parts of the world. Hence the options previously proposed such as isolation of the contaminated site or movement of the contaminated mass to a secure disposal site after excavation are becoming unsuitable from the economic point of view and instead decontamination alternatives are preferred. This book will help readers such as scientists and regulators to understand the details of the remediation techniques available to deal with the soils contaminated by toxic metals.

Innovative Site Remediation

Technology: Thermal desorption William C. Anderson,1997 Environmental Geotechnics A. Bouazza,2021-07-01 This volume presents proceedings from the first Australian New Zealand Geoenvironment conference The conference provides a forum for researchers and practitioners in the region to exchange ideas share information and discuss the effective management of the geoenvironment Advances in Environmental Geotechnics Yunmin Chen,Xiaowu Tang,Liangtong Zhan,2011-02-04 Advances in Environmental Geotechnics presents the latest developments in this interdisciplinary field The topics covered include basic and advanced theories for modeling of geoenvironmental phenomena testing and monitoring for geoenvironmental engineering municipal solid wastes and landfill engineering sludge and dredged soils geotechnical reuse of industrial wastes contaminated land and remediation technology applications of geosynthetics in geoenvironmental engineering geoenvironmental risk assessment management and sustainability ecological techniques and case histories This proceedings includes papers authored by core members of ISSMGE TC5 International Society of Soil Mechanics and Geotechnical Engineering Environmental Geotechnics and geoenvironmental researchers from more than 20 countries and regions It is a valuable reference for geoenvironmental and geotechnical engineers as well as civil engineers Yunmin Chen Xiaowu Tang and Liangtong Zhan are Professors at the Department of Civil Engineering of Zhejiang University China

Groundwater and Soil Cleanup National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Technologies for Cleanup of Subsurface Contaminants in the DOE Weapons Complex, 1999-10-21 This book presents a comprehensive up to date review of technologies for cleaning up contaminants in groundwater and soil It provides a special focus on three classes of contaminants that have proven very difficult to treat once released to the subsurface metals radionuclides and dense nonaqueous phase liquids such as chlorinated solvents Groundwater and Soil Cleanup was commissioned by the Department of Energy DOE as part of its program to clean up contamination in the nuclear weapons production complex In addition to a review of remediation technologies the book describes new trends in regulation of contaminated sites and assesses DOE s program for developing new subsurface cleanup technologies

Catalog of Superfund Program Information Products 1994 United States.

Environmental Protection Agency. Office of Emergency and Remedial Response, 1994 Catalog of Superfund program information products United States. Environmental Protection Agency. Office of Emergency and Remedial Response, 1994 <u>Innovations in Ground Water and Soil Cleanup</u> Committee on Innovative Remediation Technologies, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1997-11-04 Most books on ground water and soil cleanup address only the technologies themselves not why new technologies are or are not developed Innovations in Ground Water and Soil Cleanup takes a holistic approach to the entire field addressing both the sluggish commercial development of ground water and soil cleanup technologies and the attributes of specific technologies It warns that despite cleanup expenditures of nearly 10 billion a year the technologies remain rudimentary. This engaging book focuses on the failure of regulatory policy to link cleanup with the financial interests of the company responsible for the contamination The committee explores why the market for remediation technology is uniquely lacking in economic drivers and why demand for innovation has been so much weaker than predicted The volume explores how to evaluate the performance of cleanup technologies from the points of view of the public regulators cleanup entrepreneurs and other stakeholders. The committee discusses approaches to standardizing performance testing so that choosing a technology for a given site can be more timely and less contentious Following up on Alternatives for Ground Water Cleanup NRC 1994 this sequel presents the state of the art in the cleanup of various types of ground water and soil contaminants Strategies for making valid cost comparisons also are reviewed **Innovative Bio-Based Technologies for Environmental** Remediation Pardeep Singh, Chaudhery Mustansar Hussain, Mika Sillanpää, 2022-01-20 Innovative Bio Based Technologies for Environmental Remediation explores the recent applications of both the latest and broad practical and theoretical aspects of environmental remediation with an aim to combine various innovation based biotechnology for waste management waste minimization and waste to economy This book summarizes the recent progress of bio based technologies for environmental remediation at both an experimental and a theoretical model level An emphasis has been made on trends and the probable future of sustainable techniques to reduce waste and harmful compounds from the environment Biological based technologies have low operating costs and involve direct degradation of organic pollutants without the release of toxic intermediates Recent applications covered in this book include process intensification in bio based approaches green technology phytoremediation biopolymers biosurfactants for environmental applications and other bio based technologies with sustainable design and the future of remediation are also discussed This book is an important reference source for environmental scientists and engineers who are seeking to improve their understanding of how bio based technologies are

playing an increasingly important role in environmental remediation. It brings together recent innovations and practices of bio based technologies for environmental remediation outlines major bio based technologies and discusses biopolymers and

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