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Remediation Manual for Contaminated Sites Abstracts of Remediation Case Studies Remediation of Contaminated Environments Remediation Engineering of Contaminated Soils Sustainable Remediation of Contaminated Soil and Groundwater Remediation: Crossing Discursive Boundaries Fundamentals of Site Remediation Sustainable Remediation of Contaminated Sites The Handbook of Environmental Remediation Natural Attenuation Abstracts of Remediation Case Studies Remediation Engineering Handbook of Complex Environmental Remediation Problems Remediation Case Studies Remediation Measures for Radioactively Contaminated Areas Abstracts of Remediation Case Studies Plant-Based Remediation Processes Remediation Engineering of Contaminated Soils Remediation Engineering Novel Materials for Environmental Remediation Applications David L. Russell Federal Remediation Technologies Roundtable (U.S.) Donald L. Wise Deyi Hou Mariusz Pisarski John Pichtel Krishna Reddy Chaudhery Mustansar Hussain Patrick V. Brady Federal Remediation Technologies Roundtable (U.S.) Suthan S. Suthersan Jay H. Lehr Dharmendra K. Gupta Federal Remediation Technologies Roundtable (U.S.) Dharmendra Kumar Gupta Donald L. Wise Suthan S. Suthersan Dimitrios A Giannakoudakis

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to ask the right question one needs to have some idea of what the answer might be so it is with remediation there is no such thing as too much information when it comes to characterizing a site as information can aid in selecting the best remediation options unfortunately the collection of data for making an informed decision is often costly forcing professionals to make decisions on incomplete data the lack of accurate data can also lead to the wrong remediation method selections unwanted surprises and extra expense based on the author's more than 40 years of experience working on environmental projects remediation manual for contaminated sites provides a practical guide to environmental remediation and cleanups it presents a broad overview of the environmental remediation process distilled into what one needs to know to evaluate a specific challenge or solve a remediation problem the text offers guidance on tasks that range from managing consultants and contractors to gathering data selecting a suitable remediation technology and calculating remediation costs the book includes remediation strategies for a variety of contaminants and examines a wide range of technologies for the remediation of water and soil including excavation wells drainage soil venting vapor stripping incineration bioremediation containment solidification vitrification and phytoremediation written as a down to earth reference for professionals faced with the challenges of remediating a contaminated site this book is also useful as a primer for students and those new to the field it includes numerous figures photographs tables and helpful checklists

remediation of contaminated environments summarises amongst other things what happened to the people and environment around chernobyl and other nuclear sites and what measures need to be taken in future in the event of nuclear accidents etc plus it has a very important and currently topical use in detailing what to do in the event of a terrorist dirty bomb attack on a city remediation including characterization of contaminated sites safety requirements remediation planning effectiveness of individual measures in different environments social ethical and economic considerations application of modern decision aiding technologies applicable to different categories of contaminated environments and contaminants comprising areas contaminated by radiation accidents and incidents nuclear weapon tests natural radionuclides associated with nuclear fuel cycle fossil material mining and gas and oil production associated side effects environmental and social and human based remediation measures comprising perception of this activity by the population with particular regard to stakeholders and population involvement in making decisions on environmental safety and remediation of contaminated sites

offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomedia monitoring of contaminants in the subsurface and waste containment cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological approaches

sustainable remediation of contaminated soil and groundwater materials processes and assessment provides the remediation tools and techniques necessary for simultaneously saving time and money and maximizing environmental social and economic benefits the book integrates green materials cleaner processes and sustainability assessment methods for planning designing and implementing a more effective remediation process for both soil and groundwater projects with this book in hand engineers will find a valuable guide to greener remediation materials that render smaller environmental footprint cleaner processes that minimize secondary environmental impact and sustainability assessment methods that can be used to guide the development of materials and processes addresses materials processes and assessment needs for implementing a successful sustainable remediation process provides an integrated approach for the unitization of various green technologies such as green materials cleaner processes and sustainability assessment includes case studies based on full scale commercial soil and groundwater remediation projects

the monograph presents the application and practical development of the concept of remediation one of the major tools of understanding new media examples are drawn from artistic practices in central europe theoretical frameworks extend the concept of remediation to new phenomena and areas of critical discourse like biomedicine

this new edition discusses chemical and engineering principles as they apply to the cleanup and removal of hazardous chemicals from soil and groundwater there is emphasis on environmental chemistry soil science microbiology and plant science the first part of the book provides an overview of the recent history of environmental contamination and the formulation of relevant regulations for hazardous waste site remediation this part also provides a background for several salient aspects of site remediation e.g. soil science the site assessment process the second part of the book examines field remediation technologies including phytoremediation bioremediation and several chemical and physical technologies theory of operation practical considerations and possible environmental impacts and other consequences of their use are discussed covers both metal and hydrocarbon based contamination and remediation many competitors only address one industry or source of contamination this title provides an overview of all of the sources presents both the assessment of contaminated sites and the technologies currently available for environmental cleanup effective for use in field situations and for academic i.e. university course use two new chapters i. the use of nanomaterials for remediation of contaminated soil and water and ii. revegetation of severely disturbed sites

traditional site remediation approaches typically focus on the reduction of containment concentrations to meet cleanup goals or risk based corrective levels with a primary emphasis on remediation program cost and timeframe such an approach however may

result in ancillary impacts to the environment that when considered in totality with the remediation activity result in a net negative impact to the environment in contrast to a traditional remediation approach green and sustainable remediation is a holistic approach to remediation that considers ancillary environmental impacts and aims to optimize net effects to the environment the green and sustainable remediation approach addresses a broad range of environmental social and economic impacts during all remediation phases the objective of the approach is to achieve remedial goals through more efficient sustainable strategies that conserve resources and protect air water and soil quality through reduced emissions and other waste burdens green and sustainable remediation also simultaneously encourages the reuse of remediated land and enhanced long term financial returns for investments though the potential benefits are enormous many environmental professionals and project stakeholders do not utilize green and sustainable technologies because they are unaware of methods for selection and implementation sustainable remediation of contaminated sites describes the green and sustainable remediation decision framework presents qualitative and quantitative assessment tools including multi disciplinary metrics to assess sustainability of green and sustainable remediation and reviews potential new technologies the book will also present several case studies that include green and sustainable remediation solutions and will also highlight the challenges in promoting this practice

this handbook brings altogether classical and emerging techniques for hazardous wastes municipal solid wastes and contaminated water sites

natural attenuation *cercla* *rbcas* and the future of environmental remediation presents the concept of natural attenuation the tendency of soils to severely limit the toxicity of many types of hazardous waste it reviews and updates the most recent findings from the field and lab and shows how natural attenuation is rapidly changing the direction and focus of environmental remediation outlining the legal and regulatory framework that has made waste remediation so costly this book shows how applying an understanding of natural attenuation can decrease cleanup outlays while lowering risks to human health natural attenuation *cercla* *rbcas* and the future of environmental remediation makes it clear why natural attenuation will be relied upon more and more in the future

in many cases the application of in situ technologies evolved as a necessity from a cost perspective however the basic understanding of the mechanisms and theory behind these technologies was treated as a black box although we have seen some tremendous successes in the application of remediation technologies over the past several years we have also seen many cases in which a technology has been incorrectly or inappropriately applied in most cases this misapplication has been the result of a poor

understanding of the basic concepts and mechanisms behind the technologies without proper understanding the potential for misapplication of technologies remains a serious economic and technical threat

annotation

this book offers extensive and comprehensive knowledge to the researchers and academicians who are working on decontamination of radioactively contaminated areas remediation strategies for contaminated sites are provided readers who will find this book useful include professionals specializing in radioecology safe disposal of radioactive waste as well as decontamination remediation legacies and impact of radioactive waste material on the environment the chapters give a broad overview and reviews of a number of original publications on remediation strategies that were explored after the chernobyl and fukushima nuclear power plant accidents useful case studies are provided that explore the latest technological developments and future trends for affected area decontamination

phytoremediation is an emerging technology that employs higher plants for the clean up of contaminated environments basic and applied research have unequivocally demonstrated that selected plant species possess the genetic potential to accumulate degrade metabolize and immobilize a wide range of contaminants the main focus of this volume is on the recent advances of technologies using green plants for remediation of various metals and metalloids topics include biomonitoring of heavy metal pollution amendments of higher uptake of toxic metals transport of heavy metals in plants and toxicity mechanisms further chapters discuss agro technological methods for minimizing pollution while improving soil quality transgenic approaches to heavy metal remediation and present protocols for metal remediation via in vitro root cultures

offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomedia monitoring of contaminants in the subsurface and waste containment cites specific case studies in hydrocarbon remediation that offer a concise overview of possible technological approaches

this second edition of remediation engineering will continue to be the seminal handbook that regulators must have on hand to address any of the remediation issues they are grappling with daily the book is wide ranging but specific enough to address any environmental remediation challenge patricia reyes interstate technology regulatory council washington dc usa this book offers the researcher teacher practitioner student and regulator with state of the art advances in conducting site investigations and

remediation for common and emerging contaminants it is revolutionary in its approach to conducting subsurface investigation which greatly influences a successful and appropriate response in assessing and addressing environmental risk this book is a giant leap forward in understanding how contaminants behave and how to reduce risk to acceptable levels in the natural world daniel t rogers amsted industries incorporated chicago illinois usa this text is a superb reference and a good tool for learning about state of the art techniques in remediation of soil and groundwater it will become a ready reference at many companies as the engineering community creates increased value from remediation efforts around the world john waites avx corporation fountain inn south carolina usa remediation engineering was first published in 1996 and quickly became the go to reference for a relatively young industry offering the first comprehensive look at the state of the science in treatment technologies of the time and the contaminants they applied to this fully updated second edition will capture the fundamental advancements that have taken place during the last two decades within all the subdisciplines that form the foundation of the remediation engineering platform it covers the entire spectrum of current technologies that are employed in the industry and also discusses future trends and how practitioners should anticipate and adapt to those needs features shares the latest paradigms in remediation design approach and contaminant hydrogeology presents the landscape of new and emerging contaminants details the current state of the practice for both conventional technologies such as sparging and venting examines newer technologies such as dynamic groundwater recirculation and injection based remedies to address both organic and inorganic contaminants describes the advances in site characterization concepts such as smart investigations and digital conceptual site models includes all new color photographs and figures

novel materials for environmental remediation applications adsorption and beyond presents detailed comprehensive coverage of novel and advanced materials that can be applied to address the growing global concern of the pollution of natural resources in water the air and in soil the book provides up to date knowledge of state of the art materials and treatment processes as well as details of applications including adsorptive remediation and catalytic remediation chapters include the characteristics of materials basic and important physicochemical features for environmental remediation applications routes of synthesis recent advances as remediation medias and future perspectives this book offers an interdisciplinary and practical examination of novel materials and processes for environmental remediation that will be valuable to environmental scientists materials scientists environmental chemists and environmental engineers alike highlights a wide range of synthetic methodologies physicochemical and engineered features of novel materials and composites hybrids for environmental purposes presents applications of adsorbents or catalysts for water wastewater treatment and air purification technologies such as advanced oxidation processes adsorption photocatalysis coagulation flotation membrane separation filtration and others provides comprehensive consolidated coverage of novel materials

for environmental remediation applications for researchers in environmental science materials science and industry to identify in depth solutions to pollution

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