Environmental Consulting Fundamentals Investigation Remediation

Environmental Consulting FundamentalsEnvironmental Consulting FundamentalsPhytoremediationAdsorption: Fundamental Processes and ApplicationsBribery and CorruptionDNAPL Site EvaluationBioremediation: Fundamentals & Effective Applications Basics of Environmental Lawlncident Response & Computer Forensics, Third EditionFuture Challenges for the U.S. Geological Survey's Mineral Resources ProgramOffshore Safety ManagementIllinois Bar JournalMineral Resources and SocietyOmics for Environmental Engineering and Microbiology SystemsJournal of Engineering EducationBasics of Solid and Hazardous Waste Management TechnologyBasics of Accounting & FinanceFundamentals of Soil BehaviorTwin Plant NewsNeuropsychological Fundamentals in Learning Disabilities Benjamin Alter Benjamin Alter Abid A. Ansari Mehrorang Ghaedi Brian P. Loughman James W. Mercer Gulf Coast Hazardous Substance Research Center. Symposium Jason T. Luttgens National Research Council Ian Sutton Vineet Kumar Kanti L. Shah James K. Mitchell Julio Bernaldo de Quirós Environmental Consulting Fundamentals Environmental Consulting Fundamentals Phytoremediation Adsorption: Fundamental Processes and Applications Bribery and Corruption DNAPL Site Evaluation Bioremediation: Fundamentals & Effective Applications Basics of Environmental Law Incident Response & Computer Forensics, Third Edition Future Challenges for the U.S. Geological Survey's Mineral Resources Program Offshore Safety Management Illinois Bar Journal Mineral Resources and Society Omics for Environmental Engineering and Microbiology Systems Journal of Engineering Education Basics of Solid and Hazardous Waste Management Technology Basics of Accounting & Finance Fundamentals of Soil Behavior Twin Plant News Neuropsychological Fundamentals in Learning Disabilities Benjamin Alter Benjamin Alter Abid A. Ansari Mehrorang Ghaedi Brian P. Loughman James W. Mercer Gulf Coast Hazardous Substance Research Center. Symposium Jason T. Luttgens National Research Council Ian Sutton Vineet Kumar Kanti L. Shah James K. Mitchell Julio Bernaldo de Quirós

this book is a primer for those interested in a career in this dynamic multidisciplinary field as well as a handy reference for practicing consultants combining theory and practice advice into a concise readable format the book is an accessible introduction to the types of projects you will encounter as an environmental consultant and lays the groundwork for what you II need to know in this challenging and rewarding profession also available with this book under the additional resources tab are powerpoint lectures that correspond with each chapter new in the second edition covers the latest environmental issues including emerging contaminants and the latest technological advances in environmental investigation and remediation new chapters dedicated to vapor intrusion investigation and mitigation and to brownfields redevelopment and project financing an expanded chapter describing the staffing budgeting and execution of environmental projects descriptions of the remediation processes under rcra and superfund descriptions on how each chapter s subject matter applies to the job of the environmental consultant dozens of new figures photographs and tables designed to enhance the reader s understanding of the subject matter problems and questions to be used for homework assignments or classroom discussions

written by an environmental consultant with more than 20 years of experience and based

on a course he taught for 10 years environmental consulting fundamentals investigation and remediation introduces the basic building blocks of environmental consulting rather than formulas and equations it emphasizes the thought processes that go into design

this text details the plant assisted remediation method phytoremediation which involves the interaction of plant roots and associated rhizospheric microorganisms for the remediation of soil contaminated with high levels of metals pesticides solvents radionuclides explosives crude oil organic compounds and various other contaminants many chapters highlight and compare the efficiency and economic advantages of phytoremediation to currently practiced soil and water treatment practices volume 5 of phytoremediation management of environmental contaminants provides the capstone of the series taken together the five volumes provide a broad based global synopsis of the current applications of phytoremediation using plants and the microbial communities associated with their roots to decontaminate terrestrial and aquatic ecosystems

adsorption fundamental processes and applications volume 33 in the interface science and technology series discusses the great technological importance of adsorption and describes how adsorbents are used on a large scale as desiccants catalysts catalyst supports in the separation of gases the purification of liquids pollution control and in respiratory protection finally it explores how adsorption phenomena play a vital role in many solid state reactions and biological mechanisms as well as stressing the importance of the widespread use of adsorption techniques in the characterization of surface properties and the texture of fine powders covers the fundamental aspects of adsorption process engineering reviews the environmental impact of key aquatic pollutants discusses and analyzes the importance of adsorption processes for water treatment highlights opportunity areas for adsorption process intensification edited by a world leading researcher in interface science

as businesses continue to expand globally into new and emerging markets bribery and corruption risks have increased exponentially bribery and corruption offers a comprehensive look at this growing problem and at the foreign corrupt practices act fcpa and other international anti bribery and corruption conventions presenting hypothetical examples of situations companies will face along with practical solutions the book offers detailed global guidance on a region and country specific basis the fcpa prohibits us companies and their subsidiaries from bribing foreign officials either directly or indirectly through intermediaries for the purpose of obtaining or retaining business it also requires companies to keep accurate records of all business transactions and maintain an effective system of internal accounting controls internationally the organization of economic cooperation and development s oecd s anti bribery convention has been adopted by 38 countries and creates legally binding standards related to bribery of foreign public officials written by renowned accounting fraud experts richard a sibery and brian p loughman and providing an introduction and overview of the foreign corrupt practices act fcpa and international bribery laws bribery and corruption considers how to conduct fcpa risk assessments and investigations how to consider fcpa specific financial controls how to implement an fcpa compliance program and how to measure fcpa compliance the risk of bribery and corruption continues to be an area of concern for companies around the world but armed with bribery and corruption it is easier than ever to understand the challenges that exist and how to deal with them

dnapl site evaluation covers long term contamination of ground water by dnapl dense non aqueous phase liquids chemicals the book develops a framework for planning and implementing dnapl site characterization activities it provides detailed methods to identify characterize and monitor sites and analyzes their utility limitations risks availability and

cost methods to interpret contaminant fate and transport are identified and new site characterization methods are assessed dnapl site evaluation will maximize the cost effectiveness of site investigation remediation by providing the best information available to describe and evaluate methods to be used for determining the presence fate and transport of subsurface dnapl contamination the book will be a useful reference for groundwater professionals and environmental regulatory personnel

the definitive guide to incident response updated for the first time in a decade thoroughly revised to cover the latest and most effective tools and techniques incident response computer forensics third edition arms you with the information you need to get your organization out of trouble when data breaches occur this practical resource covers the entire lifecycle of incident response including preparation data collection data analysis and remediation real world case studies reveal the methods behind and remediation strategies for today s most insidious attacks architect an infrastructure that allows for methodical investigation and remediation develop leads identify indicators of compromise and determine incident scope collect and preserve live data perform forensic duplication analyze data from networks enterprise services and applications investigate windows and mac os x systems perform malware triage write detailed incident response reports create and implement comprehensive remediation plans

the committee assesses the usgs s responses to a 1996 program review evaluates the minerals information team and examines how the program s mission and vision might evolve to meet the nation s future needs over the next decade

offshore safety management second edition provides an experienced engineer s perspective on the new safety and environmental system sems regulations for offshore oil and gas drilling how they compare to prior regulations and how to implement the new standards seamlessly and efficiently the second edition is greatly expanded with increased coverage of technical areas such as engineering standards and drilling and procedural areas such as safety cases and formal safety assessments the new material both complements the sems coverage and increases the book s relevance to a global audience following the explosion fire and sinking of the deepwater horizon floating drilling rig in april 2010 the bureau of ocean energy management regulations and enforcement boemre issued many new regulations one of them was the safety and environmental system rule which is based on the american petroleum institute s semp recommended practice finalized in april 2013 author ian sutton explains the sems rule and describes what must be done to achieve compliance each of the twelve elements of the sems rule such as management of change and safe work practices is described in the book and guidance is provided on how to meet boemre requirements detailed explanation of how to implement the new sems standard for offshore operations ties the new regulations in with existing safety management approaches helping managers leverage existing processes and paperwork with ceos now signing off on compliance paperwork this book provides expert insights so you can get sems compliance right the first time

vols 28 include reports and proceedings of the 64th 1940 annual meetings formerly issued as the association s annual report

bioremediation using microbes is a sustainable technology for biodegradation of target compounds and an omics approach gives more clarity on these microbial communities this book provides insights into the complex behavior of microbial communities and identifies enzymes metabolites and their degradation pathways it describes the application of microbes and their derivatives for the bioremediation of potentially toxic and novel compounds it highlights the existing technologies along with industrial practices and real

life case studies features includes recent research and development in the areas of omics and microbial bioremediation covers the broad environmental pollution control approaches such as metagenomics metabolomics fluxomics bioremediation and biodegradation of industrial wastes reviews metagenomics and waste management and recycling for environmental cleanup describes the metagenomic methodologies and best practices from sample collection to data analysis for taxonomies explores various microbial degradation pathways and detoxification mechanisms for organic and inorganic contaminants of wastewater with their gene expression this book is aimed at graduate students and researchers in environmental engineering soil remediation hazardous waste management environmental modeling and wastewater treatment

this easy to read and pragmatic book offers a systematic treatment of solid and hazardous waste management technology encouraging self learning with a focus on current technical and scientific fundamentals it covers all the basic concepts and tools needed for making decisions chapter topics include environmental legislation and regulations sources composition and characteristics physical chemical and biological properties storage collection and transportation processing technologies source reduction and reuse disposal and management and control of landfill leachate and gas for civil engineers and scientists facing a first time involvement in any aspect of solid and hazardous waste management this book will be a valuable reference

the improved new edition of the classic book on the physical properties of soil fundamentals of soil behavior third edition is the thoroughly updated expanded and revised edition of this highly distinguished publication in geotechnical engineering filled with useful tables and graphs illustrating correlations among composition classification state and static and dynamic properties this third edition continues the tradition of providing the latest information on the physical properties of soil and the fundamentals of its behavior over time students and busy professionals will connect with this new edition s timesaving streamlined format and its greater emphasis on practical exercise problems involving advanced concepts of soil behavior other must read features of this third edition include new expanded material on micro mechanical behavior at the particulate level and its influences on engineering properties at the macro scale a new chapter on time effects on soil deformation at different stress and strain levels new coverage of such important topics as environmental geotechnics biological influences on soil behavior soil fracturing the effects of time and geochemical problems sets of questions and problems at the end of each chapter a feature not available in prior editions fundamentals of soil behavior third edition is an essential text for graduate students and researchers as well as a peerless reference for geotechnical environmental and civil engineers and geologists

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