



Remediation Engineering Of Contaminated Soils

**Raymond Nen Yong, Raymond N.
Yong, H. R. Thomas**



Remediation Engineering Of Contaminated Soils:

Remediation Engineering of Contaminated Soils Donald L. Wise, 2000-07-25 Offers thorough coverage of the remediation of soils contaminated by hazardous wastes including materials analytical techniques cleanup design and methodology characterization of geomechanics 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

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Geoenvironmental Engineering Raymond N. Yong, 2000-09-25 Why do some contaminants remain in soils indefinitely How much of a threat do they pose to human health or the environment The need for effective and economic site decontamination arises daily *Geoenvironmental Engineering Contaminated Soils Pollutant Fate and Mitigation* discusses why soils remain contaminated focusing on the development of the factors properties characteristics and parameters of soils and individual contaminants Subjects covered include the basic properties of soils affecting accumulation of contaminants long term retention of contaminants and their fate including the development of intermediate products The author emphasizes the factors interactions and mechanisms important in the bonding and partitioning process He provides the groundwork for determining the fate of pollutants in soils and sediments and their mitigation *Geoenvironmental Engineering Contaminated Soils Pollutant Fate and Mitigation* focuses on why soils and sediments remain contaminated not how they became contaminated in the first place You will understand why specific contaminants remain in soils and sediments how much of a threat they pose to human health and the environment and what steps to take for mitigation With this information you can determine the extent of the contamination of soils and sediments how long they will remain a threat and what methods to use for their remediation

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Introductory technical guidance for civil geotechnical and mechanical engineers interested in remediation of contaminated soil Here is what is discussed 1 INTRODUCTION AND OVERALL DESIGN STRATEGY 2 THERMAL CONDUCTIVE HEATING 3 ELECTRICAL RESISTIVITY HEATING 4 STEAM ENHANCED EXTRACTION 5 WASTE STREAM TREATMENT OPTIONS 6 OTHER SYSTEM CONSIDERATIONS 7 MODELING An Introduction to Thermal Remediation of Contaminated Soil J. Paul Guyer,2018-04-23 This publication provides introductory technical guidance for civil engineers environmental engineers and other professional engineers and construction managers interested in thermal remediation of contaminated soil Here is what is discussed 1 INTRODUCTION AND OVERALL DESIGN STRATEGY 2 THERMAL CONDUCTIVE HEATING 3 ELECTRICAL RESISTIVITY HEATING 4 STEAM ENHANCED EXTRACTION 5 WASTE STREAM TREATMENT OPTIONS 6 OTHER SYSTEM CONSIDERATIONS 7 MODELING An Introduction to Thermal Remediation Treatment of Contaminated Soil J. Paul Guyer,2018-08-11 This publication provides introductory technical guidance for civil engineers environmental engineers and other professional engineers environmental managers and construction managers interested in thermal remediation of contaminated soil Here is what is discussed 1 SITE SCREENING 2 FEASIBILITY STUDIES 3 BENCH AND PILOT SCALE STUDIES 4 TREATMENT DESIGN 5 COST AND PERFORMANCE 6 CASE STUDIES *Electrochemical Remediation Technologies for Polluted Soils, Sediments and Groundwater* Krishna R. Reddy,Claudio Cameselle,2009-08-04 An unmatched reference on electrochemical technologies for soil sediment and groundwater pollution remediation Electrochemical technologies are emerging as important approaches for effective and efficient pollution remediation both on their own and in concert with other remediation techniques Electrochemical Remediation Technologies for Polluted Soils Sediments and Groundwater provides a systematic and clear explanation of fundamentals field applications as well as opportunities and challenges in developing and implementing electrochemical remediation technologies Written by leading authorities in their various areas the text summarizes the latest research and offers case studies that illustrate equipment installation and methods employed in real world remediations Divided into nine sections the coverage includes Introduction and fundamental principles Remediation of heavy metals and other inorganic pollutants Remediation of organic pollutants Remediation of mixed contaminants Electrokinetic barriers Integrated coupled technologies Mathematical modeling Economic and regulatory considerations Field applications and performance assessment Unique as a comprehensive reference on the subject Electrochemical Remediation Technologies for Polluted Soils Sediments and Groundwater will serve as a valuable resource to all environmental engineers scientists regulators and policymakers

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