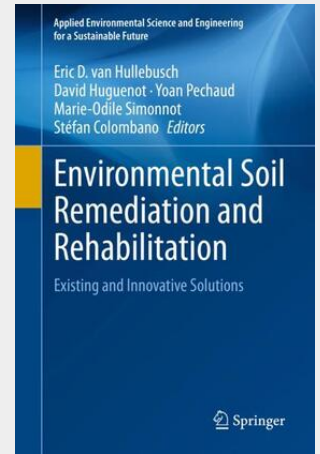


# Environmental Soil Remediation and Rehabilitation

Existing and Innovative Solutions

This book provides a comprehensive overview of innovative remediation techniques and strategies for soils contaminated by heavy metals or organic compounds (e.g. petroleum hydrocarbons, NAPLs and chlorinated organic compounds). It discusses various novel chemical remediation approaches (in-situ and ex-situ) used alone and in combination with physical and/or thermal treatment. Further, it addresses the recovery of NAPLs, reuse of leaching solutions, and in-situ chemical reduction and oxidation, and explores the chemical enhancement of physical NAPLs recovery from both practical and theoretical perspectives. Also presenting the state-of-the-art in waste-assisted bioremediation to improve soil quality and the remediation of petroleum hydrocarbons, the book is a valuable resource for students, researchers and R&D professionals in industry engaged in the treatment of contaminated soils.

This book provides a comprehensive overview of some existing and innovative remediation techniques and strategies for soils contaminated by heavy metals or organic compounds (e.g. petroleum hydrocarbons, NAPLs, chlorinated organic compounds,..). Several innovative chemical remediation approaches (in-situ and ex-situ) and combination with physical and/or thermal treatment are discussed. Recovery of NAPLs, reuse of leaching solutions and in-situ chemical reduction and oxidation is comprehensively presented. The enhancement of physical NAPLs recovery by chemical enhancement is presented from a practical and theoretical point of view. Innovative waste-assisted bioremediation to improve the soil quality and the remediation of petroleum hydrocarbons is also presented. This book will be useful for students, researchers, professionals and R&D industrial departments engaged in the treatment of contaminated soils.



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