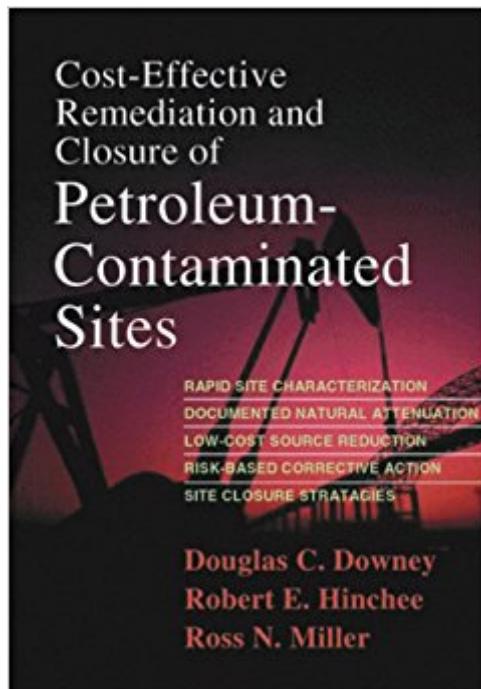


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Cost-Effective Remediation And Closure Of Petroleum-Contaminated Sites



Synopsis

This book provides environmental managers and their supporting technical specialists with a comprehensive strategy for cost-effectively cleaning up soils and groundwater contaminated by petroleum releases. It includes the most recent advances in site investigation techniques, low-cost remedial approaches, and technologies. It uses a "risk-based" process to answer key questions involved in developing a remediation or closure plan for a petroleum spill site. Several approaches are described that include risk management methods which use institutional controls to isolate contaminates from human contact and long-term monitoring to verify that natural attenuation is reducing future risk. More traditional risk evaluations and simplified RCBA methods are presented that use site-specific exposure assumptions to develop risk-based cleanup objectives. Case studies illustrate how various combinations of land-use control, site-specific risk analysis, natural attenuation and focused source reduction technologies have been used to obtain risk-based closures at sites across the United States.

Book Information

Hardcover: 297 pages

Publisher: Battelle Press; 1St Edition edition (July 1999)

Language: English

ISBN-10: 1574770713

ISBN-13: 978-1574770711

Product Dimensions: 9.1 x 6.5 x 0.8 inches

Shipping Weight: 1.5 pounds

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