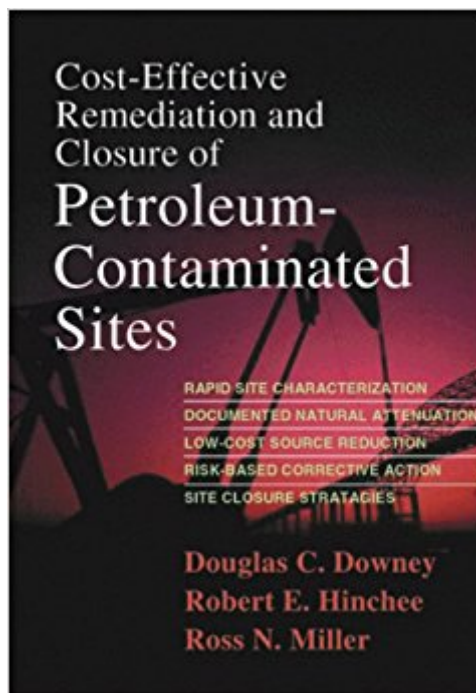




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# Cost-Effective Remediation And Closure Of Petroleum-Contaminated Sites



## 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 contaminants 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

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## Customer Reviews

"This book provides a quick and comprehensive introduction to the philosophies, concepts, and technologies associated with fuel spill site remediation. It will be particularly valuable to novice spill site managers, or anyone else that needs a quick primer on this topic. The authors are well-recognized experts that have contributed substantially to the rapid development of this field over the last decade." -- Dr. Paul Johnson, Arizona State Department of Civil Engineering

Mr. Douglas C. Downey, P.E., is a senior project manager and technical director for site remediation services with Parsons Engineering Sciences, Inc. (Parson ES). His responsibilities include the assessment and application of new remediation technologies, including innovative and low-cost methods for removing fuels and solvents from soils and groundwater. Prior to joining Parson ES, Mr. Downey directed the Air Force Engineering and Services Center research in jet fuel remediation and has authored over 40 papers on soil remediation, natural attenuation, and risk-based site closures. Mr. Downey is a graduate of the U.S. Air Force Academy and received a Masters Degree in Environmental Engineering at Cornell University. Mr. Downey can be reached at [Doug\\_Downey@parsons.com](mailto:Doug_Downey@parsons.com). Robert E. Hinchee is the Technical manager for Hazardous Waste and Remediation activities at Parsons Engineering Science Inc. Dr. Hinchee has extensive experiences in the development and application of technology to the assessment and remediation of contaminated sites. He has been involved in the development and application of new technologies including soil gas surveying, soil venting, in-situ bioremediation, including chlorinate solvent bioremediation, at more than 300 sites through out the United States. Dr. Hinchee is a professional engineer and received a Ph.D. in Civil and Environmental Engineering from Utah State University. Ross N. Miller, Ph.D., P.E., CIH, is a Colonel and Senior Bioenvironmental Engineer in the U.S. Air Force. He has served as the Chief of the Technology Transfer Division at the USAF Center for Environmental Excellence, Brooks AFB, Texas. He holds a Ph.D. in Civil and Environmental Engineering from Utah State University and has managed Occupational Health and Environmental Protection Programs at three major Air Force installations. He is currently responsible for the technical direction of remedial actions at multiple Air Force installations and specializes in fuel and solvent spill remediation using innovative technologies.

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