



# Groundwater and Soil Remediation: Process Design and Cost Estimating of Proven Technologies

*Marve Hyman, R. Ryan Dupont*

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## Groundwater and Soil Remediation: Process Design and Cost Estimating of Proven Technologies

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"Groundwater and Soil Remediation: Process Design and Cost Estimating of Proven Technologies" describes conventional treatment technologies and explains how they are designed and what they cost. This practical book provides design details and examples of remediation techniques with an emphasis on the integration of remediation technologies into a process design scheme. Chemical engineering techniques are applied to civil and environmental engineering and hydrogeologic contamination problems, allowing engineers to select the best-suited remediation solution from competing alternatives. The steps in systematic process design and process control are described in detail for a variety of soil and groundwater remediation techniques, including metals removal from groundwater, groundwater remediation using carbon absorption, stripping of groundwater, aqueous chemical oxidation, bioremediation systems, soil venting, thermal treatment for soils and sludges, soil washing, and stabilization and solidification. Applications of traditional cost estimating methods as well as those developed especially for remediation systems, based on what is often limited subsurface information, are also presented. The book provides a logical pathway for determining the best feasible combinations of processes for complex remediation systems, explains how readers can learn to interpret or create piping and instrumentation diagrams (P&IDs), and gives a comprehensive exposition for cost estimating of treatment systems with both traditional methods and computer programs.



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