



Remediation Hydraulics

Fred C. Payne, Joseph A. Quinnan, Scott T. Potter

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In situ treatments involving the arrangement of contact between prospective reactants in complex porous media require a refined understanding of solute migration. However, the tools and methods used to predict and control fluid movement in the subsurface need significant improvement. Practitioners and regulators must develop novel methods to achieve an advanced understanding of treatment mechanisms.

Remediation Hydraulics addresses the need to predict and control fluid movement in the subsurface. It demonstrates how to conduct realistic assessments of contaminant plume structure and achieve contact between injected reagents and target compounds. The book describes both the advection-dispersion and continuous random walk theories of mass transport as well as explains the practical implications of each theory in remedial system design. In addition, it devotes an entire section to the development of conceptual site models and hydrostratigraphic characterization techniques that will aid practitioners in assessing the role of depositional environments in patterning groundwater flows and containment distributions.

Based the authors' sound experience at over one hundred groundwater treatment projects, this bookprovides an arsenal of relevant theories and practical applications to aid practitioners and regulators in the prediction of fluid movement in the subsurface as well as in the design of pilot to full-scale remediation systems.



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