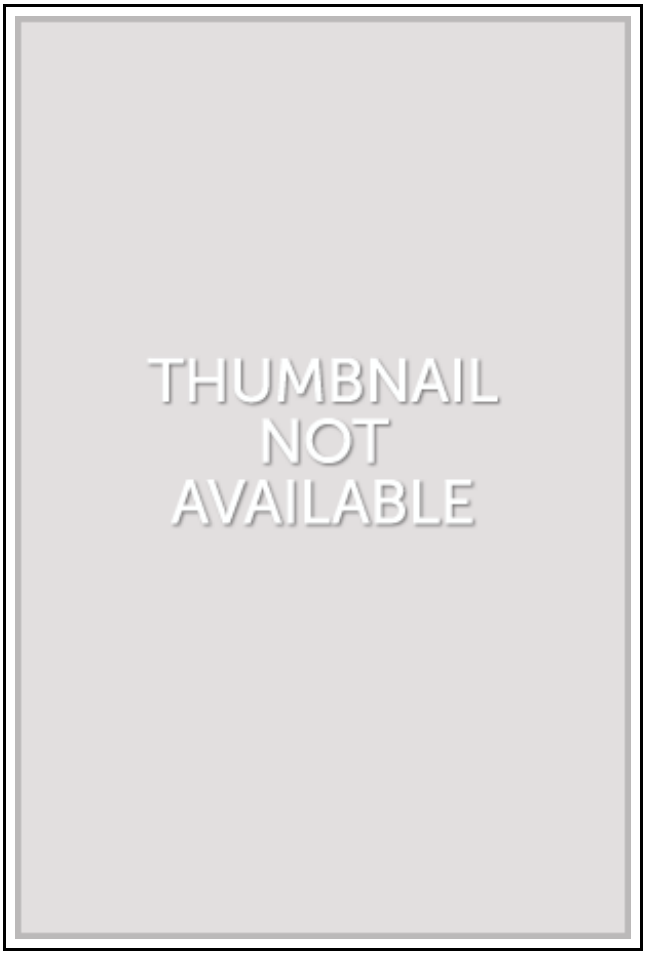
In situ remediation technology: electrokinetics



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IN SITU REMEDIATION TECHNOLOGY: ELECTROKINETICS

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Books LLC, Reference Series. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Original publisher: Washington, D. C. : E. P. A. , Office of Solid Waste and Emergency Response, Technology Innovation Office, 1995 OCLC Number: (OCoLC)52560836 Subject: In situ remediation -- United States. Excerpt: . . . availability of organic matter in the soil, processing parameters used, and the type of conditioning and enhancement scheme employed in the electrokinetic remediation process. Studies at LSU indicate that polar species such as phenol may be removed under electrical fields below their solubility limit, but removal of nonpolar species such as hexachlorobutadiene and TNT under electrical fields is possible only if aqueous surfactant solutions are used in order to increase the solubility of the organic species and to form charged micelles. Pilot-scale studies have been conducted under a cooperative agreement between the U. S. EPA and Electrokinetics, Inc. of Baton Rouge. The efficiency and feasibility of removing lead from spiked one ton specimens of clay have been demonstrated in three separate pilot-scale tests. In research sponsored by the U. S. EPA, researchers at LSU have developed a theoretical model for multi-species transport in soils under electrical fields. The numerical implementation of the model has been verified through correlations with the results of the pilot-scale studies. LSU researchers and Electrokinetics Inc. personnel, in a collaborative effort with the Department of Energy (DOE) and the U. S. EPA also have initiated a research and development program which aims to deploy multi-species transport processes under electrical fields in injection of process additives and nutrients for effective in situ bioremediation of organic species. Bench and pilot-scale studies investigating transport rates of selected species in heterogenous soil conditions are ongoing. Pilot-scale studies and field demonstration studies are planned. Wastes Treated: Heavy...

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