



Journees

By Liesbet Van Cauwenberghe Ground-water

RareBooksClub. Paperback. Book Condition: New. Paperback. 76 pages. OCLC Number: 52590046 Excerpt: . . . 4. 0 FACTORS AFFECTING ELECTROKINETIC TECHNOLOGY 4. 1 GENERAL Electromigration rates in the subsurface depend upon grain size, ionic mobility, contamination concentration, total ionic concentration, and significantly upon the soil pore water current density. The process efficiency is not as dependent on the fluid permeability of soil as it is on the pore water electrical conductivity and path length through the soil, both of which are a function of the soil moisture content (2, 11). The direction and quantity of the contaminant movement is influenced by the contaminant concentration (anions versus cations), soil type and structure, interfacial chemistry, and current density of the soil pore water. Electrokinetic remediation is possible in saturated and unsaturated soils. Experimental results indicate that there is a minimum moisture content at which electromigration can take place, which is related to, and can be estimated from, the residual moisture content of a soil, also called immobile water. The soil moisture content must be high enough to allow electromigration, but for optimum results, should likely be less than saturation, to avoid the competing effects of tortuosity and pore...



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