
Applied Groundwater Modeling, Second Edition: Simulation Of Flow And Advective Transport Books Pdf F Extra Quality

These conceptual models for describing large-scale plume spreading are more broadly applicable than the matrix diffusion conceptual model for purposes of site remediation evaluation and site evaluation (Figure 9). The matrix diffusion conceptual model [34] is limited to the case of an aquifer composed of alternating layers of relatively high permeability sand and relatively low permeability silt and clay (Figure 10). In more general circumstances, these models are useful for understanding the long-term migration of solutes in heterogeneous aquifers. This model makes it possible to quantify the long-term transport of solutes by matrix diffusion in a case where the solute is eventually flushed out of the high permeability zones. On the other hand, a conceptual model involving a transmissive matrix controls the long-term transport of a contaminant, and this model is general enough to describe plume spreading in aquifers in which the transmissive zones are separated by an interfluvial zone of less permeable material. An additional model of particular interest is the two-phase model, which has a transmissive matrix similar to the matrix diffusion conceptual model, but involves transport of a gas-aqueous mixture instead of a solute in a two-phase flow, wherein multiple phases are present in the same spatial location. This type of model can also be useful for understanding and controlling the long-term transport of contaminants via gas bubble advection in vadose zones. [35] Thus, the conceptual models discussed here represent a framework for describing and controlling the long-term, large-scale spread of solutes and gas bubbles in heterogeneous aquifers, and are useful for sites where solute-phase contaminant transport is the primary concern, such as deep groundwater contamination. [36]



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