



Unsaturated Zone Hydrology for Scientists and Engineers

James A. Tindall, James R. Kunkel

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This book presents systematic, integrated A-to-Z coverage of state-of-the-art unsaturated zone hydrology. Multi-disciplinary in approach, it provides both a soil physics and an engineering approach to unsaturated zone hydrology. Coverage begins with the basic physical properties and the behavior of clays, and moves on to contaminant transport and other parameters such as spatial variability, scaling, and fractals in the earth sciences. **KEY TOPICS:** Details analytical solutions for seven analytical infiltration models. Provides a comprehensive description and equations for performing a detailed water balance used to size and design water-storage facilities, reclamation zones for waste-storage facilities, and other water-management facilities. Presents five analytical models for both deterministic and probabilistic solutions to liquid/vapor flow in the unsaturated zone -- including unique coverage of the derivation and use of a three-dimensional analytical solution for flow of NAPLs in the unsaturated zone. Presents eight analytical models to assess unsaturated zone contaminant levels which are permissible to regulators for protection of underlying ground water. Includes a detailed description of the current technology of site characterization and monitoring devices used in unsaturated zone research -- including illustrations, diagrams of connections, and advantages and disadvantages of each. Illustrates real-world problems typical of sites the authors have worked with during the last 10 years. A reference for practicing engineers and environmental law firms.

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