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Groundwater Hydrology: Conceptual and Computational Models

K. R. Rushton

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Groundwater Hydrology: Conceptual and Computational Models K. R. Rushton
Groundwater is a vital source of water throughout the world. As the number of groundwater investigations increase, it is important to understand how to develop comprehensive quantified conceptual models and appreciate the basis of analytical solutions or numerical methods of modelling groundwater flow.
Groundwater Hydrology: Conceptual and Computational Models describes advances in both conceptual and numerical modelling. It gives insights into the interpretation of field information, the development of conceptual models, the use of computational models based on analytical and numerical techniques, the assessment of the adequacy of models, and the use of computational models for predictive purposes. It focuses on the study of groundwater flow problems and a thorough analysis of real practical field case studies.
It is divided into three parts:
* Part I deals with the basic principles, including a summary of mathematical descriptions of groundwater flow, recharge estimation using soil moisture balance techniques, and extensive studies of groundwater-surface water interactions.
* Part II focuses on the concepts and methods of analysis for radial flow to boreholes including topics such as large diameter wells, multi-layered aquifer systems, aquitard storage and the prediction of long-term yield.
* Part III examines regional groundwater flow including situations when vertical flows are important or transmissivities change with saturated depth.
Suitable for practising engineers, hydrogeologists, researchers in groundwater and irrigation, mathematical modellers, groundwater scientists, and water resource specialists. Appropriate for upper level undergraduates and MSc students in Departments of Civil Engineering, Environmental Engineering, Earth Science and Physical Geography. It would also be useful for hydrologists, civil engineers, physical geographers, agricultural engineers, consultancy firms involved in water resource projects, and overseas development workers.

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