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## Modeling Goundwater Flow & Contaminant Transport in Fractured Aquifer

By Tesfaye, Alema

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Basics, Concepts and Methods | As technology advances, groundwater resources are under increasing threat from growing demands & contamination. To tackle this, a key is to be able to model the overall physics of groundwater flow & contaminants in the saturated zone. Models provide the required information for making decisions associated with the management of groundwater resources, & prevent a risk of contamination. Thus, this book focuses on how to simulate the groundwater flow & Advective contaminant transport in fractured hard rock terrain, the latter focusing on migration pathway & travel time of contaminants. It explains how to build conceptual model of the system domain, how to use GIS to create the spatially distributed input parameter of the model & how to resample them to grid size of the model so that it makes easier to assign their respective values to model grid through cell by cell mechanism. It also explains how to: estimate the groundwater recharge using various models, use of Digital Elevation Model to extract input parameters of flow model, simulate and calibrate the model, and finally how to use the calibrated model to simulate contaminant transport in the hard...



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