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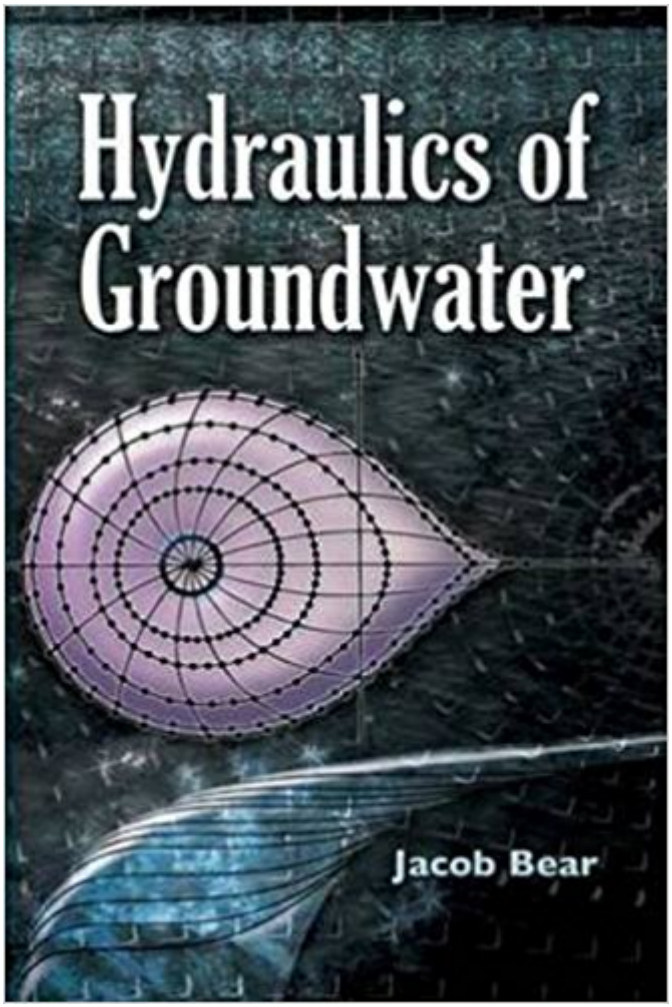
Hydraulics Of Groundwater (Dover Books On Engineering)



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Synopsis

This text explores the laws and equations that govern the flow and storage of groundwater in aquifers. It provides groundwater hydrologists, as well as engineers and planners who deal with the development and management of groundwater resources, with all the necessary tools to forecast the behavior of a regional aquifer system.Following an introduction to the role and management of groundwater in water resource systems, the text examines groundwater balance and motion, mathematical statements of the groundwater forecasting problem, flow in the unsaturated zone, and groundwater quality problems. Additional topics include hydraulics of pumping and recharging wells, fresh and salt water interface in coastal aquifers, modeling of aquifer systems, identification of aquifer parameters, and the use of linear programming in aquifer management. Helpful appendixes and a set of problems corresponding to selected chapters conclude the text.

Book Information

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Customer Reviews

This is a really excellent book both as as reference and a text. I think Bear is especially good in the early chapters with the derivations of the mathematical equations that underlie groundwater motion, and his focus on physics as opposed to formulae. Bear considers the majority of the classical aquifer models in some detail, so I think the book serves as a useful foundation for readers who might want to access literature on hydraulic aquifer models, for those who want to test the accuracy of numerical schemes with analytic solutions, and for those who want to probe deeper into the

physics of groundwater flow. Although not a maths book by intent, some readers may find the text a little too mathematical in style; however careful reading of the early chapters (and a sympathetic instructor) will help develop the reader's understanding of the physics and mathematics of groundwater flow.

If you are looking for a quick reference, this is not the book for you. It is written for a research level, not for Engineering purposes.

The book includes developments and presentations of fundamentals, from conceptual models (though highly simplified) to and a myriad of classic analytic solutions (so the reader may need to read it selectively) - which are the basis of any groundwater modeling.

All very well, I received the books without problems and very son too

Very good introductory material for groundwater hydrology. Topics are explained in a simple and easy to understand manner. Useful examples. More examples will be great.

Excellent book!!

very good book. it is hard to find. I think a hard cover may be better. wish next vision can find hard cover book

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