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# Groundwater Science



## Synopsis

Groundwater Science is a timely, current, and comprehensive presentation of groundwater hydrology that integrates chemistry, physics, geology, and calculus. With the input of students and other hydrology instructors, the author has developed a text reference that will be appreciated by students and professors alike. The book covers recent contamination topics such as non-aqueous-phase liquids (NAPLs), complex solute transport processes, and remediation. It contains clear explanations, two-color figures, case studies, and worked examples throughout. This book is recommended for upper-level undergraduate and graduate students in hydrology, geology, environmental science, and civil engineering departments as well as for scientists and engineers in the groundwater field. Integrates up-to-date material on field methods and flow modeling methods. Covers recent contamination topics including non-aqueous-phase liquids (NAPLs), complex solute transport processes, and remediation. Presents clear explanations, two-color figures, case studies, and worked examples throughout.

## Book Information

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## Customer Reviews

"The writing and presentation is clear and economical. The figures have a crisp and uncluttered look to them. Fitts stresses concepts over formal development....a fine textbook." -Roger Beckie, Univ. British Columbia, for VADOSE ZONE JOURNAL, 2003 "Groundwater Science would serve well as the text for an introductory groundwater course...The graphics are crisp and explanatory. Data sets needed to work some of the problems in the book are available as text files from the book's Web

Site...I found these files to be complete and easy to understand. The references are up to date...concise, well-written, and well-illustrated..."-Sean A. McKenna, Sandia National Labs, EOS TRANSACTIONS, July 2003"Groundwater Science is presented in a clear, logical manner, with attractive, effective typeset, and crisp diagrams...I strongly endorse this book for those entering the world of groundwater science for the first time."-David Sharpe, Geological Survey of Canada Episodes, December 2002"The writing is clear and accurate without being wordy... The figures, references, and indexing are also well done. The references include both classics and recent papers, with broad coverage...It's not easy to do so many topics well, but Fitts' book succeeds." -Laura Toran, for GROUND WATER, 2003"Fitts takes a decidedly lean and focused approach to the subject. The figures have a crisp and uncluttered look to them. The writing and presentation is clear and economical. Fitts stresses concepts over formal development, avoiding derivations and mathematics where possible. I found his approach to be very effective, and expect it would appeal to the learning style of most students who need to first establish a simple, concrete foundation, supported by their own intuition, before they can abstract concepts in mathematical expressions...Groundwater Science is a good text for an introductory course in groundwater."- Roger Beckie, University of British Columbia, for VADOSE ZONE JOURNAL, November 2003"This text should find a suitable market in ground water science, especially with those instructors who prefer more mathematical or engineering perspectives to the subject. Although the text stresses mathematical modeling and contaminant flow, the overall balance provided by the geological perspective from Chapter 4 makes it a suitable choice for any instructor needing a comprehensive, visually appealing, well organized, and well supported textbook on ground water."- Robert A. Vargo, Department of Earth Science, California University, for the Journal of the American Water Resources Association

## NEW TEXTBOOK!

This book is easy to read and provides a great introduction to groundwater science. Charlie is my teacher, we use his book, he is very open to suggestions and is coming out with another addition soon. The text is readable and has a good balance of introduction to a subject, the math of the subject from an geology and engineering perspective, and case studies of the topic. I recommend this book for groundwater.

This is a great textbook for those interested in hydrogeology

Book was in excellent condition, barely any signs of wear.

I used this text book a few years back when I taught a class titled "Groundwater Engineering" at Texas A&M University. I found the text to be organized well, to cover all the "right" topics (i.e., the topics that I wanted to cover in my class), to be written clearly, and to have just about the right amount of mathematics and equations. I used this text for a graduate-level class, but I think it could be used by senior undergraduates as well. It has been a few years now since I taught the class, but if I do teach it again, I am pretty sure I will continue to use this text.

I and many others have been falsely perpetuating the myth that Freeze and Cherry is THE coursebook for serious hydrogeologists. Well, the time has come to debunk that myth. After you pick up a copy of Charlie Fitts text, Groundwater Science, "mirror, mirror on the wall will reveal who has the best groundwater science text of all, and it ain't FnC." For those non-risk takers out there, just browse on over to the publisher's companion website and read the first chapter and the first couple of pages of all the book for yourself. While you are there you see published reviews of this book and a whole lot of stuff to make instructors happy, like 100 book illustrations on powerpoint and the complete solutions manual. Of course, these are ONLY for instructors and students aren't savvy enuf to find them by themselves. If you don't think this is THE Best textbook on GW Science, go ahead and do your own review. And by the way, it is a lot cheaper than anything else out there, so you can feel good about keeping some \$ in your students' pockets.

Book is very technical for the undergraduate earth science major. Calculas based up to the third semester. More of an upper div or Graduate level text. Book goes through the basics such as why Ground water in important and the basics of water such as it being a polar molecule.

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