Groundwater Science

By Charles R. Fitts

Groundwater Science By Charles R. Fitts

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

Groundwater Science

By Charles R. Fitts

Groundwater Science By Charles R. Fitts

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

Groundwater Science By Charles R. Fitts Bibliography

- Sales Rank: #1382716 in Books
- Published on: 2002-06-19
- Original language: English
- Number of items: 1
- Dimensions: 1.11" h x 7.64" w x 10.04" l, 3.09 pounds
- Binding: Hardcover
- 450 pages

Editorial Review

Review
"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, Sanda 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

From the Back Cover
Groundwater Science is a well organized, clearly written resource for students and professionals seeking comprehensive treatment of hydrogeology. This volume introduces groundwater's role in the hydrologic cycle and in water supply, contamination, and construction issues. Subsequent chapters introduce physical principles: properties of subsurface materials, groundwater flow, groundwater geology, deformation, and flow modeling techniques. Later chapters address groundwater chemistry and contamination. This treatment of the subject is intentionally interdisciplinary, weaving important theories and methods from the disciplines

of physics, chemistry, mathematics, geology, biology, and environmental science.

Key Features
* Integrates up-to-date field methods with the principles of current flow modeling methods: analytic elements, finite differences, and finite elements
* 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

About the Author:
Charles R. Fitts is a professor at the University of Southern Maine with research interests in hydrogeology, contaminant migration, and applied mathematics. Fitts earned a doctorate in Civil Engineering from the University of Minnesota, has consulted for various geotechnical and groundwater companies, and has authored two popular groundwater modeling software packages: TWODAN for modeling groundwater flow, and SOLUTRANS for modeling solute transport.

About the Author
Charles R. Fitts is a professor at the University of Southern Maine with research interests in hydrogeology, contaminant migration, and applied mathematics. He earned an MS in engineering geology at Cornell and a PhD in civil engineering at the University of Minnesota. He has consulted for various geotechnical and groundwater companies, and is author of several groundwater modeling software packages: AnAqSim (analytic aquifer simulator) and TWODAN for groundwater flow, and SOLUTRANS for solute transport.

Users Review

From reader reviews:

Alfred Hoover:

This Groundwater Science book is not ordinary book, you have it then the world is in your hands. The benefit you have by reading this book is actually information inside this guide incredible fresh, you will get details which is getting deeper anyone read a lot of information you will get. This kind of Groundwater Science without we know teach the one who reading through it become critical in pondering and analyzing. Don't become worry Groundwater Science can bring once you are and not make your case space or bookshelves' grow to be full because you can have it within your lovely laptop even cell phone. This Groundwater Science having fine arrangement in word along with layout, so you will not sense uninterested in reading.

Peter Barba:

People live in this new day of lifestyle always make an effort to and must have the spare time or they will get lots of stress from both day to day life and work. So , when we ask do people have time, we will say absolutely of course. People is human not really a huge robot. Then we inquire again, what kind of activity are you experiencing when the spare time coming to an individual of course your answer will probably unlimited right. Then ever try this one, reading textbooks. It can be your alternative with spending your spare time, the particular book you have read is definitely Groundwater Science.

Nicolas Jones:

On this era which is the greater man or woman or who has ability in doing something more are more special than other. Do you want to become among it? It is just simple way to have that. What you should do is just spending your time almost no but quite enough to experience a look at some books. One of many books in the top checklist in your reading list is usually Groundwater Science. This book and that is qualified as The Hungry Inclines can get you closer in turning into precious person. By looking right up and review this book you can get many advantages.

Joseph Franson:

A lot of people said that they feel bored stiff when they reading a book. They are directly felt that when they get a half regions of the book. You can choose often the book Groundwater Science to make your current reading is interesting. Your skill of reading expertise is developing when you including reading. Try to choose easy book to make you enjoy to learn it and mingle the impression about book and studying especially. It is to be initial opinion for you to like to open up a book and read it. Beside that the publication Groundwater Science can to be your friend when you're experience alone and confuse in doing what must you're doing of this time.

Read Groundwater Science By Charles R. Fitts for online ebook

Groundwater Science By Charles R. Fitts Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Groundwater Science By Charles R. Fitts books to read online.

Online Groundwater Science By Charles R. Fitts ebook PDF download

Groundwater Science By Charles R. Fitts Doc

Groundwater Science By Charles R. Fitts Mobipocket

Groundwater Science By Charles R. Fitts EPub

9TEG7CKO6M3: Groundwater Science By Charles R. Fitts