



Applied Hydrogeology (4th Edition)

By C.W. Fetter Jr.

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This best selling book, *Applied Hydrogeology* gives readers a balanced examination of all facets of hydrogeology. It text stresses the application of mathematics to problem solving rather than derivation of theory. It provides a balance between physical and chemical hydrogeology. Numerous case studies cultivate reader understanding of the occurrence and movement of ground water in a variety of geologic settings. This valuable reference includes five new case histories: The Dakota Aquifer, Fractures Sedimentary Rocks—Newark basin, Faults as Aquifer Boundaries, Desert Hydrology—Azraq basin, Jordan. Uses the Internet to obtain hydrogeologic data and information. Includes well-developed case studies in most of the chapters. Contains tables covering various functions, unit conversions, and additional data for solving well hydraulics, water chemistry, and contaminant transport problems. For readers interested in advanced hydrology, groundwater hydrology, hydrogeology, and civil engineering.

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Editorial Review

From the Publisher

This text gives students a balanced examination of how each facet of hydrology is related to other geologic fields. The text stresses the application of mathematics to problem solving rather than derivation of theory. Numerous case studies cultivate student understanding of the occurrence and movement of ground water in a variety of geologic settings.

From the Inside Flap

PREFACE

Hydrogeology is now considered to be a core course in the curriculum of undergraduate geology programs as well as many fields of engineering. There is ongoing demand for persons with training in hydrogeology by consulting organizations, state and federal regulatory agencies, and industrial firms. Most of the employment in hydrogeology is in the environmental area. This is a book that will help prepare students for either a career in hydrogeology or in other areas of environmental science and engineering where a strong background in hydrogeology is needed.

Applied Hydrogeology is intended as a textbook for an introductory course in hydrogeology taught either at the advanced undergraduate level, or as a dual-level undergraduate/graduate course. It is also useful in helping individuals who are preparing to take state examinations for professional registration as a hydrologist or hydrogeologist. It can be found as a reference book in the personal library of many working professionals.

The reader is expected to have a working knowledge of college algebra, and calculus is helpful, but not necessary, for practical understanding of the material. A background in college chemistry is necessary to understand the chapter on water chemistry. The book stresses the application of mathematics to problem-solving rather than the derivation of theory. To this end you will find many example problems with step-by-step solutions. Case studies in many chapters enhance understanding of the occurrence and movement of ground water in a variety of geological settings. A glossary of hydrogeological terms makes this book a valuable reference.

The fourth edition contains new case studies and end-of-chapter problems. In most cases the problems are paired. An odd-numbered problem will have the answer given in a section in the back of the book, followed by an even-numbered problem without the answer. Step-by-step solutions to the odd-numbered problems can also be found at the Applied Hydrogeology web page: [appliedhydrogeology](http://appliedhydrogeology.com). Many chapters in the fourth edition also contain a section called Analysis, with non-numerical questions. The use of spreadsheet programs, such as Microsoft® Excel, in hydrogeology is introduced here.

Included with the text are working student versions of three computer programs that are used by ground-water professionals. They have been furnished free of charge by the software publishers. No technical support is furnished for these programs, either by the author or the software publisher. However, they are easy to use and come with tutorials and documentation on the CD-ROM.

The following reviewers provided helpful suggestions for the fourth edition: Gary S. Johnson, University of Idaho; Larry Murdoch, Clemson University; Claude Epstein, Richard Stockton College of New Jersey; David L. Brown, California State University at Chico; F. Edwin Harvey, University of Nebraska at Lincoln; Edward L. Shuster, Rensselaer Polytechnic Institute; Willis D. Weight, Montana Tech. of the University of Montana; Larry D. McKay, University of Tennessee at Knoxville; Laura L. Sanders, Northwestern Illinois

University; Jean Hoff, St. Cloud State University; and Jim Butler, Kansas Geological Survey.

I am grateful to Larry Murdoch and Rex Hodges of Clemson University for introducing me to the use of spreadsheet ground-water flow models. I would especially like to thank Glenn Duffield of Hydrosolve, Inc. for furnishing the student version of AQTESOLV, Pat Delaney of Waterloo Hydrogeologic Inc. for furnishing the student version of Visual MODFLOW and Kirk Hemker for the use of FLOWNETLT. Todd Rayne of Hamilton College has prepared the solution manual for the problems, which course instructors can request from their Prentice Hall sales representative. Patrick Lynch, Senior Editor for Geology at Prentice Hall, has been very supportive through the course of my preparation of this revision.

C.W. Fetter

C.W. Fetter, Jr. Associates and

Emeritus Professor of Hydrogeology

University of Wisconsin Oshkosh

From the Back Cover

This best selling book, "Applied Hydrogeology" gives readers a balanced examination of all facets of hydrogeology. It stresses the application of mathematics to problem solving rather than derivation of theory. It provides a balance between physical and chemical hydrogeology. Numerous case studies cultivate reader understanding of the occurrence and movement of ground water in a variety of geologic settings. This valuable reference includes five new case histories: The Dakota Aquifer, Fractures Sedimentary Rocks--Newark basin, Faults as Aquifer Boundaries, Desert Hydrology--Azraq basin, Jordan. Uses the Internet to obtain hydrogeologic data and information. Includes well-developed case studies in most of the chapters. Contains tables covering various functions, unit conversions, and additional data for solving well hydraulics, water chemistry, and contaminant transport problems. For readers interested in advanced hydrology, groundwater hydrology, hydrogeology, and civil engineering.

Users Review

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Dorothy Delarosa:

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Brandon Macdonald:

Playing with family within a park, coming to see the water world or hanging out with pals is thing that usually you could have done when you have spare time, then why you don't try matter that really opposite from that. Just one activity that make you not sensation tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of knowledge. Even you love Applied Hydrogeology (4th Edition), you may enjoy both. It is excellent combination right, you still wish to miss it? What kind of hangout type is it? Oh can occur its mind hangout people. What? Still don't get it, oh come on its known as reading friends.

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