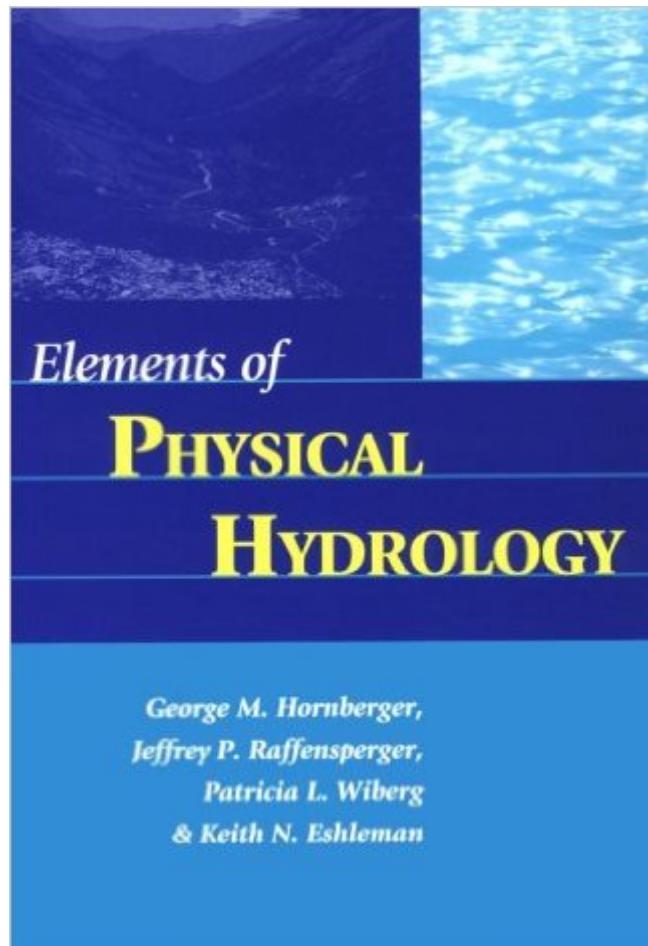


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Elements Of Physical Hydrology



Synopsis

The science of physical hydrology centers on the physical principles involved in the study of the occurrence and movement of water on and beneath the earth's surface. Because of its far-reaching implications for other disciplines, physical hydrology is of interest to students in fields ranging from the environmental sciences to engineering, policy studies, and even law. In this introductory-level text the authors begin from the premise that the complexities of modern hydrology can be mastered by understanding basic physical principles of fluid movement. Focusing first on analysis at the scale of a single watershed, they then introduce the mechanics of fluids in closed conduits and open channels. They reevaluate catchment processes in light of fluid mechanics, open channel hydraulics, and groundwater flow. In a concluding chapter, they stress the importance of understanding water movement in the environment by exploring the relationship of hydrology to such disciplines as atmospheric science, ecology, and geology. Accompanying the book is a CD-ROM, which provides a Web version of the text (Netscape Navigator 2.0 or later required). Included are video demonstrations, additional content and interactive review questions, and extensive links to facilitate study and review. Instructions for using the Web version are included. Also on the CD-ROM are simulation tools to study hydrological processes (MATLAB student version 5.0 required).

Book Information

Paperback: 312 pages

Publisher: Johns Hopkins University Press; Edition Unstated edition (May 26, 1998)

Language: English

ISBN-10: 0801858577

ISBN-13: 978-0801858574

Product Dimensions: 10 x 7.1 x 0.9 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars Â See all reviewsÂ (11 customer reviews)

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Customer Reviews

This is a sort of elementary textbook, and should help biologists, chemists, environmentalists, and

geologists to obtain fundamentals of hydraulics and hydrology. I am a professional hydrologist, but still enjoyed reading that book. The main value is in proper selection of the subjects, and exceptionally clear explanation. Reading other books, many a times I had a feeling that the author had not fully understood the subject. The authors of Elements of Physical Hydrology have a great talent to make any subject simple, and they know what they are talking about. Excellent book!

This is a text I used when I took Hydrogeology. I liked it well enough that I have 1 - remembered it and 2 - gone out and purchased it. The information was set forward quite straight forward.

Equations are easy to understand and it has a good table of contents and index. Things are also well cited.

You'll need adequate background in calculus and maybe a bit of physics to get anything from the book, but overall it is a very good introductory text for people coming to physical hydrology from another hard science or engineering discipline. Like most other professions, hydrology is very jargon-y, and the book does a decent job of matching words to concepts. The glossary in the back helps with that as well. I was very impressed with the section on floods. This chapter serves as an example of the overall strength of the text. It goes over the various types of hydrographs, gives plenty of definitions, shows illustrations and examples, and also goes over in minor detail, the physics involved in flooding. The book comes with a CD with problem sets as well as the full text. In general the problem sets are helpful.

still useful but the second version has essential updates. worth buying if you don't want to spend a lot

Great! Technical but easy to understand book that will help you learn the fundamentals of hydrology.

I bought this as a new book, but I received it with dark fingerprints on the edge of the pages. It was packaged with other things (not books) so some employee was probably the one who didn't wash their hands. I know that they are overworked, especially during the holidays, but is responsible for the conditions employees must function under so that purchasers don't get damaged stuff.

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