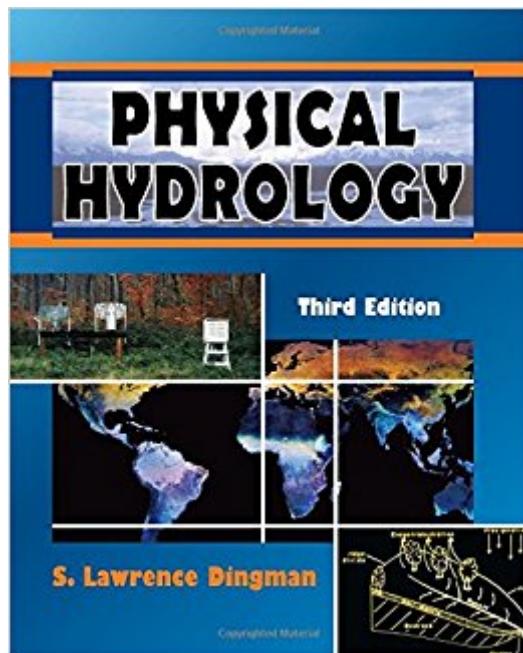


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Physical Hydrology, Third Edition



Synopsis

For twenty years, Lawrence Dingman's well-written, comprehensive Physical Hydrology has set standards for balancing theoretical depth and breadth of applications. Rich in substance and written to meet the needs of future researchers and experts in the field, Dingman treats hydrology as a distinct geoscience that is continually expanding to deal with large-scale changes in land use and climate. The third edition provides a solid conceptual basis of the subject and introduces the quantitative relations involved in answering scientific and management questions about water resources. The text is organized around three principal themes: the basic concepts underlying the science of hydrology; the exchange of water and energy between the atmosphere and the earth's surface; and the land phase of the hydrologic cycle. Dingman supplies the basic physical principles necessary for developing a sound, instructive sense of the way in which water moves on and through the land; in addition, he describes the assumptions behind each analytical approach and identifies the limitations of each. Outstanding features include: An examination of documented trends in global change of climatic and hydrologic quantities; statistical and measurement methods for the development and management of hydrologic simulation modeling; additional exercises that emphasize analyses using data sets obtained via the Internet; and Excel spreadsheets on the accompanying CD. Titles of related interest also available from Waveland Press: Benjamin, Water Chemistry, 2E (ISBN 9781478623083); Chapra, Surface Water-Quality Modeling (ISBN 9781577666059); Charbeneau, Groundwater Hydraulics and Pollutant Transport (ISBN 9781577664796); Gupta, Hydrology and Hydraulic Systems, 4E (ISBN 9781478630913); and Manning, Applied Principles of Hydrology, 3E (ISBN 9781478634195).

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Customer Reviews

"An excellent tome for environmentalists, engineers, earth scientists, and humanists. The breadth, depth, and readability of the text make the material accessible to students at a variety of levels. A gourmet menu of subject matter." --John F. Hermance, Brown University

"This is a great book and the new edition is a great improvement over the last. I especially liked the boxes throughout that give meaningful examples and calculations." --Joshua Roundy, University of Kansas

"This certainly should be on the bookshelf of any student who plans for a career in hydrology. The book sets standards for balancing theoretical depth and breadth of applications and universally fits the needs of engineers, scientists, and water management specialists." --Vitaly Zlotnik, University of Nebraska

Needed it for my class, pretty easy to follow and good illustrations if not a little hard to comprehend certain complicated concepts

You're probably buying this because you have to, and I'm sorry about that, because it's a godawful book.

This book is really a mess. Tons of poorly explained and derivated equations everywhere. Mostly just mathematical language.

Interesting book but a little dry. It speaks conceptually about hydrology- as opposed to quantitative hydrologic books.

Pretty good service; pretty good book.

Firstly, the seller is quite reliable. Dr. Dingman is a world-class hydrologist. His research is always nice and intuitive, which have been very helpful to my research. HOWEVER, Dr. Dingman has a hard time using normal human language to introduce an even very simple and basic scientific concept. I can fully understand his situation that all these concepts might be too familiar to him. But as a textbook, this one SUCKS!!!! It is anti-humanity. For example, the author defined about 20 variables when explaining a simple concept. The definitions of these variables are spread among 5~6 pages (sometimes among several chapters) randomly without any emphasis. My lab-mates

share the same experiences that usually we spent 40 min~1 hour to understand a concept from this book, then we could use 3 min to let others fully understand it. The frame of the textbook is very close to perfect, but the way it explain issues really needs to be translated into a reader-friendly language. PS: To the editor(s) of this book, xxxx you very much! It should be your duty to help the author to fix this problem. PPS: The CD with the book reflects Dr. Dingman's actual academic level, which is very good, and helpful.

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