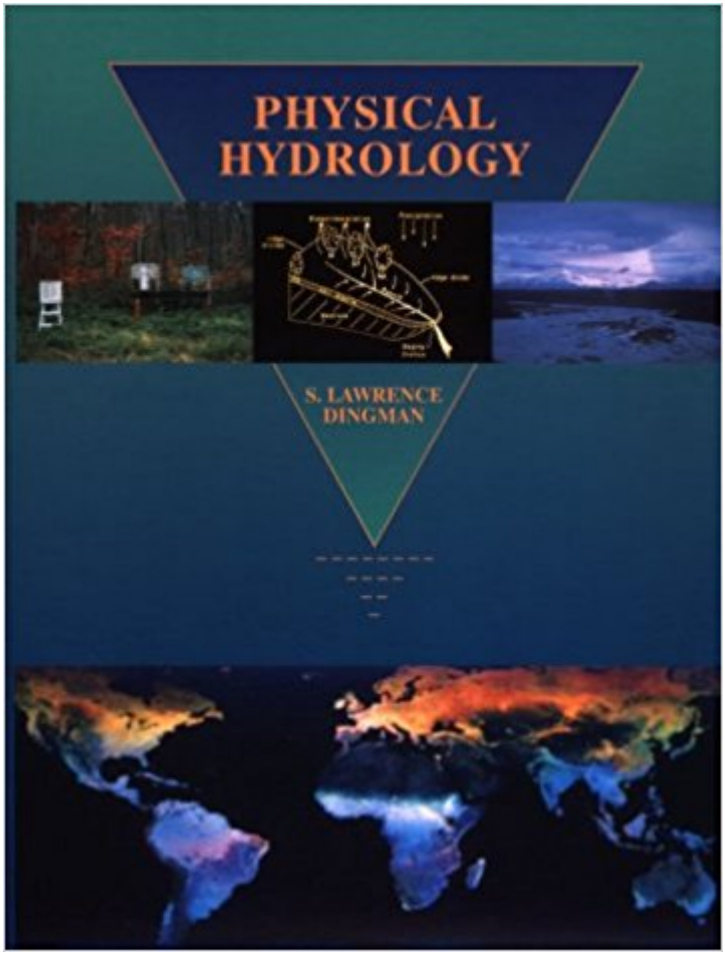
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Physical Hydrology



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Synopsis

Dingman's goal throughout Physical Hydrology is to provide an understanding of the conceptual basis of the subject and introduce the quantitative relations involved in answering scientific and water-resources-management questions. The author supplies the basic physical principles necessary for developing a sound intuitive and quantitative sense of the way in which water moves through the land. He outlines the assumptions behind each conceptual approach but also identifies some of the limitations of each. Rich in substance and written to fulfill 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 text is organized around four principal themes: the basic concepts underlying the science of hydrology; the global climate, the global hydrologic cycle, and the relation of hydrology to soils and vegetation; the land phase of the hydrologic cycle; and water-resource-management principles and the ways in which hydrologic analysis is applied in that context. Coverage includes approaches for determining regional evapotranspiration rates, the movement of ground water in rock fractures, and the relation of hydrologic regimes to past and future climates. It offers in-depth discussions of hydrologic modeling--model use, modeling terminology, and the process of model development; water-resource-management goals and processes; water supply and demand; water-quality issues; floods and flood-frequency analysis; and drought and low-flow analysis. Outstanding features that facilitate learning include: A tabulation of documented trends in global change of climatic and hydrologic quantities; information on methods for handling missing data; discussions of the BROOK90 model and how it can be used with the text; Internet links to hydrologic information; exercises designed for student exploration; and Excel spreadsheets on the accompanying CD.
--This text refers to an out of print or unavailable edition of this title.

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Customer Reviews

"This certainly should be on the bookshelf of any student who plans 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"Excellent in all respects." --Richard A. Marston, Kansas State University"This is one of the most well-written hydrology texts I have come across. The concepts are well laid and backed up with good quantitative approaches." --Joseph Zume, Shippensburg University --This text refers to an out of print or unavailable edition of this title.

This comprehensive and balanced treatment of the modern conceptual and methodologic approaches to hydrologic processes, measurements, and questions is ideal. Throughout the text, Professor Dingman emphasizes sound quantitative representations of the various hydrologic processes, and stresses the conceptual and practical aspects of a wide range of approaches to field measurement to these processes. Numerous worked examples and exercises are included throughout to help students assimilate concepts, consider implications of relations developed in the text, and apply concepts to local conditions. Whenever possible, he uses illustrations to help students understand processes, concepts, and definitions. Physical Hydrology’s organization and coverage make it suitable as a reference work for scientists already working in the field. It can also serve as a comprehensive, readily understood introduction to hydrology for scientists in related fields.

I’m currently a student using this book in a 400-level hydrology course. This is quite possibly the worst textbook I have encountered in my academic career. It somehow manages to make even simple material that I already kind of know very difficult to understand. The writing style is very pompous and generally otherwise inaccessible. Variables used in equations are either not well-defined or used inconsistently. Examples, for lack of a better word, suck. Figures are confusing rendered. Organization is terrible.All in all, a fairly good textbook example of how not to write a textbook.

Physical Hydrology is okay. It was required for one of my classes, but I honestly did not use it very much except for when it came to homework problems. The text was difficult to read and understand at times (especially for me since I'm just an undergrad), and like others mentioned, the equations could have used further discussion rather than just listing the variables. It's not my favorite book but I am keeping it as a possible reference in the future. If you're looking at this book for pure pleasure or reference, I'd suggest looking at something a little easier to read.

Great book, the bible of hydrology

College book for my son. Don't really have any opinion of it.

This book does a very good job and explaining the math behind the concepts. It fails to explain the concepts. It comes with a CD that had a huge assortment of problems and examples, so I recommend getting the CD.Overall, I was impressed with the book, but keep your calculator handy.

This book is amazing. It helps me to learn the hydrology process from both global and regional viewpoints. It is definitely a foundation textbook for my research works on hydrology data mining.

Took too long

The CD is attached to the CD cover in the back of the book, there is no way to rip the CD out.The book is nice.

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