



Physical Hydrology, Third Edition

By S. Lawrence Dingman

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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.

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Review

"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

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