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# **Elements Of Physical Hydrology**





## Synopsis

Among the many diverse aspects of environmental science, none is more critical to the future of society and nature than water. Understanding the role of water on Earth and making good decisions regarding water conservation and hydrological hazards depends on learning the fundamentals of physical hydrology. This textbook, now in an expanded second edition, provides the clearest opportunity for students to absorb those fundamentals. Written at an introductory level, Elements of Physical Hydrology covers virtually every aspect of this subject, including: a ¢ The hydrological cycleâ ¢ Water budgets at catchment to global scales â ¢ Spatial and temporal aspects of precipitationâ ¢ Evapotranspirationâ ¢ Fluid dynamics and the Bernoulli equationâ ¢ Laminar and turbulent flowsâ ¢ Open channel flow â ¢ Flood movement through reservoirs and channels â ¢ Flood frequency analysisâ ¢ Groundwater flowâ ¢ Aquifer characterizationâ ¢ Land subsidenceâ ¢ Soil moisture dynamicsâ ¢ Flow in the unsaturated zoneâ ¢ Hydrologic controls on vegetation â ¢ Biotic controls on hydrological processesâ ¢ Runoff generation from surface and subsurface sourcesâ ¢ Catchment modelsâ ¢ The water-food-energy nexusâ ¢ The globalization of waterâ ¢ Impacts of changing climateLayering one topic upon the next, Elements of Physical Hydrology succeeds in moving from simple, easy-to-grasp explanations through equations and models in a manner that will leave students new to the topic eager to apply their knowledge. Professionals in related disciplines will also find this book ideal for self-study. Thoughtfully illustrated, carefully written, and covering a broad spectrum of topics, this classic text clarifies a subject that is often misunderstood and oversimplified.

### **Book Information**

Hardcover: 392 pages Publisher: Johns Hopkins University Press; second edition edition (October 23, 2014) Language: English ISBN-10: 1421413736 ISBN-13: 978-1421413730 Product Dimensions: 7 x 1.2 x 10 inches Shipping Weight: 2.2 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars 2 customer reviews Best Sellers Rank: #75,956 in Books (See Top 100 in Books) #11 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology #130 in Books > Textbooks > Science & Mathematics > Environmental Studies #135 in Books > Science & Math > Earth

#### **Customer Reviews**

"This well-illustrated (in three colors), reasonably priced volume is a worthwhile acquisition." (Choice)

"An outstanding text that can greatly facilitate improved education in hydrology. Hopefully, this book will be universally adopted for use in undergraduate hydrology courses that have an integrated environmental focus. I fully expect that the book will also find its way to the bookshelves of many professionals and graduate students. Personally, starting next year, I plan to use this book as one of the assigned texts for the three-quarter-long Environmental Earth Science series at Stanford." (Keith Loague Ground Water)"Its general introduction to physical hydrology and in particular catchment hydrology via the hillslope-steam continuum is impressive." (Ian Cluckie Times Higher Education Supplement)"A publishing model for the future of hydrology... Not only will the text serve well in a one-semester physical-hydrology course, but it also should be useful to professionals in almost all fields of environmental science and natural-resource management." (Philip J. Gerla Journal of Geoscience Education)"Most aquatic ecologists believe that a solid knowledge of hydrology is, now, a critical tool in the lotic scientist's background... For readers looking for a good basic text in hydrology, this is the one to purchase." (James A. Gore Journal of the North American Benthological Society)

A very clear and concise textbook covering the basics of physical hydrology. A perfect textbook for individual study as every chapter is very understandable. Modern topics and areas of research are touched upon but the focus in this book is on a solid understanding of the basics. Highly recommend - I believe this is the only textbook I have ever read from cover to cover.

#### Useful book

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