



Elements of Physical Hydrology

Dr. George M. Hornberger PhD, Dr. Jeff P. Raffensperger PhD, Dr. Patricia L. Wiberg PhD, Dr. Keith N. Eshleman PhD

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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).

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