



Introduction to Hydrology (5th Edition)

By Warren Viessman Jr., Gary L. Lewis

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This book systematically covers underlying principles of hydrology in chapters 1 - 10 and then delves deeper into the application of these principles to practical problems in the field throughout the remainder of the prose. Covers all aspects of the hydrologic cycle, and the manner in which they may be modified to deal with floods, droughts, potable water supply and urban drainage. For anyone who expect to become involved in programs that are concerned with the development, management and protection of water resources.

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Editorial Review

From the Back Cover

For the fifth edition, *Introduction to Hydrology* has been significantly revamped and restructured, offering the reader content that is focused and streamlined. Many graduate level subjects and topics that were considered to be more of a handbook variety have been eliminated, in keeping with the original philosophy of the book, which was to focus on providing a scope of material that would support a theory-to-practice learning experience for beginning students in hydrology. The sequencing of chapters is designed to lead students through the underlying principles of hydrology and then to introduce them to the world of applications.

Notable changes in this fifth edition include:

- The restructured and streamlined fifth edition consists of 13 chapters, whereas the fourth edition consisted of 27 chapters.
- The chapter on statistics has been moved to an early position in the book so as to introduce these techniques before they are applied to problems in later chapters.
- There are many new solved examples and homework problems.
- Web addresses useful for securing hydrologic data and relevant information to supplement the text have been added.

About the Author

Warren Viessman Jr. is Associate Dean for Academic Programs, College of Engineering, at the University of Florida . Dr. Viessman is an accomplished author with more than 150 publications, including three bestselling textbooks. He has served as the President of both the American Water Resources Association and the Universities Council on Water Resources. Recognized for his outstanding contributions as an engineer and educator, Professor Viessman has been the recipient of several awards. Most notable are the American Society of Civil Engineers, Julian Hinds Award, the Department of the Army Commander,s Award for Public Service, and the AWRA,s Henry P. Caufield, Jr. Medal for Exemplary Contributions to National Water Policy. Dr. Viessman is a Fellow of the American Water Resources Association.

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Given the burgeoning interest in environmental issues, it is believed that course offerings in hydrology will expand nationwide and that the need for contemporary elementary textbooks on the subject will increase. This fifth edition of *Introduction to Hydrology* has been redesigned to play an important role in meeting that need.

Water scientists and engineers of tomorrow must be equipped to deal with a diversity of issues such as the design and operation of data retrieval and storage systems; forecasting; developing alternative water use futures; estimating water requirements for natural systems; exploring the impacts of climate change; developing more efficient systems for applying water in all water-using sectors; and analyzing and designing water management systems incorporating technical, economic, environmental, social, legal, and political elements. A knowledge of hydrologic principles is a requisite for dealing with such issues.

In the early years of the twentieth century, water resources development and management were focused almost exclusively on water supply and flood control. Today, these issues are still important, but environmental protection, ensuring safe drinking water, and providing aesthetic and recreational experiences compete equally for attention and funds. Furthermore, an environmentally conscious public is pressing for greater reliance on improved management practices, with fewer structural components, to solve the nation's water problems. The notion of continually striving to provide more water has been replaced by one of husbanding this precious natural resource.

There is a growing constituency for allocating water for the benefit of fish and wildlife, for protection of marshes and estuary areas, and for other natural system uses. But estimating the quantities of water needed for environmental protection and for maintaining and/or restoring natural systems is difficult. Scientific data are sparse, and our understanding of the complex interactions inherent in ecosystems of all scales is rudimentary. And this is a critical issue, since the quantities of water involved in environmental protection can be substantial, and competition for these waters from traditional water users is keen. The nations of the world are facing major decisions regarding natural systems, decisions that are laden with significant economic and social impacts. Thus there is an urgency associated with developing a better understanding of ecologic systems and of their hydrologic components.

The fifth edition has been rewritten to acquaint future water scientists and managers with the basic elements of the hydrologic cycle. It reviews data sources, introduces statistical analyses in the context of hydrologic problem-solving, covers the components of the hydrologic budget, discusses hydrograph analysis and routing, and introduces groundwater hydrology, urban hydrology, hydrologic models, and hydrologic design. The book is designed to meet the needs of students who expect to become involved in programs that are concerned with the development, management, and protection of water resources. Many solved examples and problems serve to amplify the concepts presented in the text. Many appropriate Internet addresses are provided.

Numerous sources have been drawn upon to provide subject matter for the book, and the authors hope that suitable acknowledgment has been given to them. The authors also thank the following reviewers: Istvan Bogardi, Meteorologia, Hungary; Praveen Kumar, University of Illinois; David B. Thompson, University of Texas; and Jose D. Salas, Colorado State University. Colleagues and students are also recognized for their helpful comments and reviews.

WARREN VIESSMAN, JR.
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Users Review

From reader reviews:

Charlie Bowers:

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