

Modern Hydrology and Sustainable Water Development

By S. K. Gupta

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The material of this book will derive its scientific under-pinning from basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and related disciplines and will provide sufficient breadth and depth of understanding in each sub-section of hydrology. It will start with basic concepts:

- Water, its properties, its movement, modelling and quality
- The distribution of water in space and time
- Water resource sustainability

Chapters on ‘global change’ and ‘water and ethics’ aim respectively to emphasize the central role of hydrological cycle and its quantitative understanding and monitoring for human well being and to familiarize the readers with complex issues of equity and justice in large scale water resource development process.

Modern Hydrology for Sustainable Development is intended not only as a textbook for students in earth and environmental science and civil engineering degree courses, but also as a reference for professionals in fields as diverse as environmental planning, civil engineering, municipal and industrial water supply, irrigation and catchment management.

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Editorial Review

Review
"The material of this book will derive its scientific under-pinning from basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and related disciplines and will provide sufficient breadth and depth of understanding in each sub-section of hydrology. " (Environmental Expert, 8 March 2011)

From the Back Cover
This book presents a unified treatment of the science and practice of modern hydrology, derived from the basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and related disciplines. The aim of the book is to provide both breadth and depth of understanding in each of the major sub-sections of modern hydrology, under three broad themes:

- water, its properties, its movement, modelling and quality;
- the distribution of water in space and time;
- water resource sustainability.

The importance of linking theory to application is underlined by the inclusion of four case studies from three continents. These examples cover regions of high water stress and show the relevance of the broad themes of the book to real field situations, and how adaptation measures can be employed to mitigate water stress.

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About the Author
Dr. S.K. Gupta has more than 150 publications in internationally refereed research journals and several books to his credit. Dr. Gupta has also been a Fulbright Fellow at the University of Hawaii at Manoa, an Alexander von Humboldt Fellow at the University of Heidelberg, and a Visiting Fellow at the University of Canberra. He is a Fellow of the National Academy of Sciences, India.

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