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 Principles, Analysis and Design
 California Rivers and Streams
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 Environmental Isotopes in Hydrogeology
 Forests, Water and People in the Humid Tropics
 Principles and Processes
 Principles, Processes, and Practices
 Handbook of Hydrology
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Ecohydrology National Technical Info Svc
 Principles of Hydrology McGraw-Hill Education / Europe, Middle East and Africa
Hydrologic Effects of a Changing Forest Landscape CRC Press
 Water in its different forms has always been a source of wonder, curiosity and practical concern for humans everywhere. Hydrology: An Introduction presents a coherent introduction to the fundamental principles of hydrology, based on the course that Wilfried Brutsaert has taught at Cornell University for the last thirty years. Hydrologic phenomena are dealt with at spatial and temporal scales at which they occur in nature. The physics and mathematics necessary to describe these phenomena are introduced and developed, and readers will require a working knowledge of calculus and basic fluid mechanics. The book will be invaluable as a textbook for entry-level courses in hydrology directed at advanced seniors and graduate students in physical science and engineering. In addition, the book will be more broadly of interest to professional scientists and engineers in hydrology, environmental science, meteorology, agronomy, geology, climatology, oceanology, glaciology and other earth sciences.
[Theory and Practice](#) National Academies Press
 This book is a printed edition of the Special Issue "Hillslope and Watershed Hydrology" that was published in *Water*
PHYSICAL HYDROLOGY Springer
 The Encyclopedia of Applied Geology is an international compendium of engineering geology topics prepared by experts from many countries. The volume contains more than eighty main entries in alphabetical order, dealing with hydrology, rock structure monitoring and soil mechanics in addition to engineering geology. Special topics focus on earth science information and sources, electrokinetics, forensic geology, geocryology, nuclear plant siting, photogrammetry, tunnels and tunnelling, urban geomorphology and well data systems.
[Hydrology in Practice](#) CRC Press
 "Principles of Hydrology is now offered in a substantially updated Fourth Edition. This balanced and accessible text equips the undergraduate, postgraduate and professional with a thorough understanding of the principles and processes of physical hydrology." "This textbook offers a comprehensive exploration of the basic principles governing the distribution and movement of water in the landscape. It is essential reading for all concerned with applying the most up-to-date understanding of science to

contemporary problems such as the imminent global water crisis and the effects of climatic change."--Jacket.

The Encyclopedia of Applied Geology Springer
 GIS for Environmental Applications provides a practical introduction to the principles, methods, techniques and tools in GIS for spatial data management, analysis, modelling and visualisation, and their applications in environmental problem solving and decision making. It covers the fundamental concepts, principles and techniques in spatial data, spatial data management, spatial analysis and modelling, spatial visualisation, spatial interpolation, spatial statistics, and remote sensing data analysis, as well as demonstrates the typical environmental applications of GIS, including terrain analysis, hydrological modelling, land use analysis and modelling, ecological modelling, and ecosystem service valuation. Case studies are used in the text to contextualise these subjects in the real world, examples and detailed tutorials are provided in each chapter to show how the GIS techniques and tools introduced in the chapter can be implemented using ESRI ArcGIS (a popular GIS software system for environmental applications) and other third party extensions to ArcGIS to address. The emphasis is placed on how to apply or implement the concepts and techniques of GIS through illustrative examples with step-by-step instructions and numerous annotated screen shots. The features include: Over 350 figures and tables illustrating how to apply or implement the concepts and techniques of GIS Learning objectives along with the end-of-chapter review questions Authoritative references at the end of each chapter GIS data files for all examples as well as PowerPoint presentations for each chapter downloadable from the companion website. GIS for Environmental Applications weaves theory and practice together, assimilates the most current GIS knowledge and tools relevant to environmental research, management and planning, and provides step-by-step tutorials with practical applications. This volume will be an indispensable resource for any students taking a module on GIS for the environment.

Hydrology: Advances in Theory and Practice Water Resources Publication

Water is now at the centre of world attention as never before and more professionals from all walks of life are engaging in careers linked to water - in public water supply and waste treatment, agriculture, irrigation, energy, environment, amenity management, and sustainable development. This book offers an appropriate depth of understanding of basic hydraulics and water resources engineering for those who work with civil engineers and others in the complex world of water resources development, management, and water security. It is simple, practical, and avoids (most of) the maths in traditional textbooks. Lots of excellent 'stories' help readers to quickly grasp important water

principles and practices. This third edition is broader in scope and includes new chapters on water resources engineering and water security. Civil engineers may also find it a useful introduction to complement the more rigorous hydraulics textbooks.

Processes, Resources and Environmental Management New Age International

Hydrology in Practice is an excellent and very successful introductory text for engineering hydrology students who go on to be practitioners in consultancies, the Environment Agency, and elsewhere. This fourth edition of Hydrology in Practice, while retaining all that is excellent about its predecessor, by Elizabeth M. Shaw, replaces the material on the Flood Studies Report with an equivalent section on the methods of the Flood Estimation Handbook and its revisions. Other completely revised sections on instrumentation and modelling reflect the many changes that have occurred over recent years. The updated text has taken advantage of the extensive practical experience of the staff of JBA Consulting who use the methods described on a day-to-day basis. Topical case studies further enhance the text and the way in which students at undergraduate and MSc level can relate to it. The fourth edition will also have a wider appeal outside the UK by including new material on hydrological processes, which also relate to courses in geography and environmental science departments. In this respect the book draws on the expertise of Keith J. Beven and Nick A. Chappell, who have extensive experience of field hydrological studies in a variety of different environments, and have taught undergraduate hydrology courses for many years. Second- and final-year undergraduate (and MSc) students of hydrology in engineering, environmental science, and geography departments across the globe, as well as professionals in environmental protection agencies and consultancies, will find this book invaluable. It is likely to be the course text for every undergraduate/MSc hydrology course in the UK and in many cases overseas too.

Principles, Analysis and Design Springer Science & Business Media

Forests, Water and People in the Humid Tropics is a comprehensive review of the hydrological and physiological functioning of tropical rain forests, the environmental impacts of their disturbance and conversion to other land uses, and optimum strategies for managing them. The book brings together leading specialists in such diverse fields as tropical anthropology and human geography, environmental economics, climatology and meteorology, hydrology, geomorphology, plant and aquatic ecology, forestry and conservation agronomy. The editors have supplemented the individual contributions with invaluable overviews of the main sections and provide key pointers for future research. Specialists will find authenticated detail in chapters

written by experts on a whole range of people-water-land use issues, managers and practitioners will learn more about the implications of ongoing and planned forest conversion, while scientists and students will appreciate a unique review of the literature.

California Rivers and Streams McGraw-Hill Science/Engineering/Math

This book is a printed edition of the Special Issue "The Use of Remote Sensing in Hydrology" that was published in *Water Science for Governing Towards a Sustainable Future* Routledge Hydrologic science, an important, interdisciplinary science dealing with the occurrence, distribution, and properties of water on Earth, is key to understanding and resolving many contemporary, large-scale environmental issues. The Water Science and Technology Board used the opportunity of its 1997 Abel Wolman Distinguished Lecture to assess the vitality of the hydrologic sciences by the hydrologic community. The format included focus by lecturer Thomas Dunne on the intellectual vitality of the hydrologic sciences, followed by a symposium featuring several invited papers and discussions. Hydrologic Sciences is a compilation of the Wolman Lecture and the papers, preceded by a summarizing overview. The volume stresses a number of needs for furtherance of hydrologic science, including development of a coherent body of transferable theory and an intellectual center for the science, communication across multiple geo- and environmental science disciplines, appropriate measurements and observations, and provision of central guidance for the field. [Environmental Isotopes in Hydrogeology](#) Routledge

Global Hydrology illustrates in detail the growing importance of understanding hydrological processes and pathways as a means of effective and safe management of water resources. It describes current management practices and past environmental impact. It analyses the options for improving water supply and protecting the environment, emphasizing the need for international collaboration in a changing societal and environmental context [Forests, Water and People in the Humid Tropics](#) MDPI

The third edition of *Fundamentals of Hydrology* provides an absorbing and comprehensive introduction to the understanding of how fresh water moves on and around the planet and how humans affect and manage the freshwater resources available to them. The book consists of three parts, each of fundamental importance in the understanding of hydrology: The first section deals with processes within the hydrological cycle, our understanding of them, and how to measure and estimate the amount of water within each process. This also includes an analysis of how each process impacts upon water quality issues. The second section is concerned with the measurement and analytical assessment of important hydrological parameters such as streamflow and water quality. It describes analytical and modelling techniques used by practising hydrologists in the assessment of water resources. The final section of the book draws together the first two parts to discuss the management of freshwater with respect to both water quality and quantity in a changing world. *Fundamentals of Hydrology* is a lively and accessible introduction to the study of hydrology at university level. It gives undergraduates a thorough understanding of hydrological processes, knowledge of the techniques used to assess water resources, and an up-to-date overview of water resource management. Throughout the text, examples and case studies from all around the world are used to clearly explain ideas and techniques. Essay questions, guides to further reading, and website links are also included.

Principles and Processes Cambridge University Press

Of all the outputs of forests, water may be the most important. Streamflow from forests provides two-thirds of the nation's clean

water supply. Removing forest cover accelerates the rate that precipitation becomes streamflow; therefore, in some areas, cutting trees causes a temporary increase in the volume of water flowing downstream. This effect has spurred political pressure to cut trees to increase water supply, especially in western states where population is rising. However, cutting trees for water gains is not sustainable: increases in flow rate and volume are typically short-lived, and the practice can ultimately degrade water quality and increase vulnerability to flooding. Forest hydrology, the study of how water flows through forests, can help illuminate the connections between forests and water, but it must advance if it is to deal with today's complexities, including climate change, wildfires, and changing patterns of development and ownership. This book identifies actions that scientists, forest and water managers, and citizens can take to help sustain water resources from forests.

Principles, Processes, and Practices Cambridge University Press This open access book surveys the frontier of scientific river research and provides examples to guide management towards a sustainable future of riverine ecosystems. Principal structures and functions of the biogeosphere of rivers are explained; key threats are identified, and effective solutions for restoration and mitigation are provided. Rivers are among the most threatened ecosystems of the world. They increasingly suffer from pollution, water abstraction, river channelisation and damming. Fundamental knowledge of ecosystem structure and function is necessary to understand how human activities interfere with natural processes and which interventions are feasible to rectify this. Modern water legislation strives for sustainable water resource management and protection of important habitats and species. However, decision makers would benefit from more profound understanding of ecosystem degradation processes and of innovative methodologies and tools for efficient mitigation and restoration. The book provides best-practice examples of sustainable river management from on-site studies, European-wide analyses and case studies from other parts of the world. This book will be of interest to researchers in the field of aquatic ecology, river system functioning, conservation and restoration, to postgraduate students, to institutions involved in water management, and to water related industries.

Handbook of Hydrology Routledge

This volume certainly is a Conference Proceedings, the Proceedings of the NATO Advanced Research Workshop (ARW) on "Unsaturated Flow in Hydrologic Modeling" held at "Les Villages du Soleil" near Arles, France from June 13 to 17, 1988. Let me therefore acknowledge properly, at the very beginning, the gratitude of all the participants to the NATO Science Committee for its generous support and worthwhile goal of bringing together scientists of many countries to communicate and share their experiences. Particular thanks are extended to the director of the program, Dr. Luis Vega da Cunha for his interest and understanding. On the other hand this volume is also, and probably more so, a Textbook that fills a gap in the field of unsaturated flow. Many treatises on the subject present the theory in its different aspects. Hardly any explain in details how the different pieces can be put together to address realistic problems at the basin scale. The various invited contributions to the ARW were structured in a subject progression much as chapters are organized in a book. The intent of the ARW was to assess the current state of knowledge in "Unsaturated Flow" and its use in "Hydrologic Modeling Practice". In a sense the interest in fundamentals of unsaturated flow in this ARW was not just for the sake of knowledge but also and primarily for the sake of action. Can such fundamental knowledge be utilized for better management of the water resource? was the basic question. *Thriving on Our Changing Planet* National Academies Press

Hydrology: Advances in Theory and Practice, brings together contributions to both the theory and practice of hydrology, including chapters on (amongst other topics) flood estimation methods and hydrological modelling. The book also looks forward with a global hydrology research agenda fit for the 2030s, and explores how to make advances in hydrological modelling – based on almost 50 years of modelling experience. In Focus – a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector. [Principles of Hydrology](#) IWA Publishing

Water, energy and food are key resources to sustain life, and are the fundamental to national, regional and global economies. These three resources are interlinked in multiple ways, and the term "nexus" captures the interconnections. The nexus has been discussed, debated, researched, and advocated widely but the focus is often on the pairings of "water-energy" or "water-food" or "energy-food". To really benefit from the nexus approach in terms of resource use efficiency it is essential to understand, operationalize and practice the nexus of all three resources. As demand for these resources increases worldwide, using them sustainably is a critical concern for scientists and citizens, governments and policy makers. Volume highlights include: Contributions to the global debate on water-energy-food nexus Examples of the nexus approach in practice from different regions of the world Perspectives on the future of the nexus agenda *Water-Energy-Food Nexus: Theories and Practices* is a valuable resource for students, research scholars and professionals in academic institutions with strong interests in interdisciplinary research involving geography, earth science, environmental science, environmental management, sustainability science, international development, and ecological economics. The volume will also be useful for professionals, practitioners and consultants in /NGOs, government, and international agencies. Read an interview with the editors to find out more: <https://eos.org/editors-vox/working-towards-a-sustainable-future>

[Environmental Hydrology, Second Edition](#) IWA Publishing *California Rivers and Streams* provides a clear and informative overview of the physical and biological processes that shape California's rivers and watersheds. Jeffrey Mount introduces relevant basic principles of hydrology and geomorphology and applies them to an understanding of the differences in character of the state's many rivers. He then builds on this foundation by evaluating the impact on waterways of different land use practices—logging, mining, agriculture, flood control, urbanization, and water supply development. Water may be one of California's most valuable resources, but it is far from being one we control. In spite of channels, levees, lines and dams, the state's rivers still frequently flood, with devastating results. Almost all the rivers in California are dammed or diverted; with the booming population, there will be pressure for more intervention. Mount argues that Californians know little about how their rivers work and, more importantly, how and why land-use practices impact rivers. The forceful reconfiguration and redistribution of the rivers has already brought the state to a critical crossroads. *California Rivers and Streams* forces us to reevaluate our use of the state's rivers and offers a foundation for participating in the heated debates about their future. [Handbook of Engineering Hydrology \(Three-Volume Set\)](#) John Wiley & Sons

An all-inclusive reference covering all practical aspects of hydrology. Twenty-nine chapters in four major sections: I. Hydrologic Cycle; II. Hydrologic Transport; III. Hydrologic Statistics; IV. Hydrologic Technology. 500 illustrations.

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