



Introduction To Hydraulics & Hydrology

By John E. Gribbin

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Expanded from 12 to 15 chapters, this edition of Introduction to Hydraulics & Hydrology continues to guide readers to an understanding of the concepts of hydraulics and surface water hydrology as they are used in everyday civil engineering practice. Valued as a reference by professional civil engineers, land developers, public works officials, and land surveyors throughout the U.S, this book is also an important tool for students in these disciplines. The book begins by acquainting readers with the principles of hydrostatics and hydrodynamics, starting with fluid mechanics and progressing through pressure, flow, and energy considerations. In the expanded treatment of open channel flow, varied flow is presented, including backwater profiles and hydraulic jumps. Next, concepts of rainfall, runoff, and routing are fully explored and investigated. Finally, these concepts are applied to the solution of practical engineering problems, including: open-channel flow, orifice and weir flow, culvert flow and storm sewer design, culvert design, and detention basin design. A history of water engineering and discussion of the basic concepts of computation and design are included at the beginning of the book for the benefit of readers who may be new to this field. Clearly solved examples are also included throughout the book to assist readers in their efforts to apply theory to practice.

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Editorial Review

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John E. Gribbin is an Associate Professor of Engineering Technology at Essex County College. He is also a Licensed Professional Engineer and a Consulting Engineer.

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