



Fluvial Hydraulics

By S. Lawrence Dingman

Oxford University Press. Hardcover. Book Condition: New. Hardcover. 576 pages. Dimensions: 9.3in. x 6.2in. x 1.2in. Fluvial Hydraulics provides a sound qualitative and quantitative understanding of water and sediment flows in natural rivers. This understanding is essential for modeling and predicting hydrologic and geomorphologic processes, erosion, sediment transport, water supply and quality, habitat management, and flood hazards. This book's coverage bridges the gap between the highly quantitative mechanics-based civil-engineering approach to stream hydraulics and the more qualitative treatments of fluvial geomorphology typical of earth-sciences and natural-resources curricula. Measurements of natural river flows illustrate many central concepts. The book is specifically designed for upper-level students and practitioners who are interested in a fundamental understanding of river behavior. An introduction to the history of fluvial hydraulics and an overview of the morphology and hydrology of rivers provides the context for the rest of the text. A thorough understanding of water properties, including turbulence, is developed via a series of simple thought experiments. The bases of the equations that are used to describe and predict river flows are systematically presented, including dimensional analysis. Subsequent chapters build logically on these foundations, covering velocity distributions, new insights to the central topic of flow resistance, the magnitudes...



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Reviews

It is an awesome publication which i actually have ever read through. it had been writtern really properly and valuable. I found out this book from my i and dad recommended this pdf to discover.

-- Doyle Schmeler

This book is definitely not simple to begin on studying but quite fun to see. I actually have read and that i am sure that i will gonna read through yet again once again in the foreseeable future. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- Brennan Koelpin