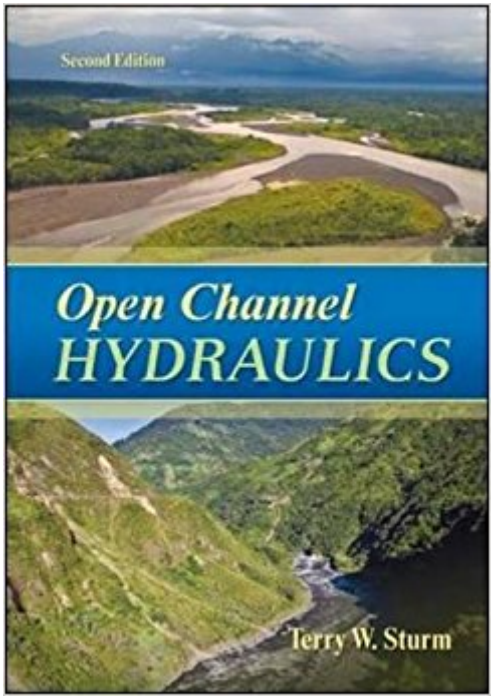
Open Channel Hydraulics



Synopsis

Open Channel Hydraulics is intended for advanced undergraduates and first-year graduate students in the general fields of water resources and environmental engineering. It offers a focused presentation of some of the most common problems encountered by practicing engineers with the inclusion of recent research advances and personal computer applications. In addition, emphasis is placed on the application of basic principles of fluid mechanics to the formulation of open channel flow problems so that the assumption and limitation of existing numerical models are made clear.

Book Information

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Customer Reviews

Dr. Terry W. Sturm received B.S. and M.S. degrees in Civil Engineering from the University of Illinois and a Ph.D. in Mechanics and Hydraulics from the University of Iowa at the Iowa Institute of Hydraulic Research. --This text refers to an out of print or unavailable edition of this title.

good condition...horrible book..not many worked out examples.

Great open channel book! Got it for my civil engineering design course and it worked out perfectly.

Looks perfect. Same book as my friend, only I paid like $200 less, would recommend!!!

Bad quality of each paper in the book, instead of a used book.

Some people have said that you need a fluid mechanics background before reading this text. Well I have a fluid mechanics background and it doesn't make much difference. Right up front, in Chapter 1, he starts randomly referring to obscure (if you haven't already studied open channels) authors, equations, and concepts without the slightest introduction or explanation.In general it is badly written, disorganized, and in serious need of an editor. Take your business elsewhere.

Was international.... But good condition.

For a textbook, it's not half-bad. This was the textbook for my Surface Water Dynamics class (a post-graduate civil engineering class).The course used this book to cover the following:- Using Specific Energy and Momentum to solve steady state flow problems- Solving uniform flow problems (including Manning's and other methods)- Solving gradually varied flow problems- Designing and evaluating hydraulic structures- Solving unsteady flow problems using - Numerical methods, - Flood routing, - HEC-RASIt briefly discusses sediment transport, but my class didn't spend much time on that.Hydrology and Hydraulics have always been challenging for me (compared to other engineering subjects), but I think this class really helped me understand the subject much better.Most of the explanations are clear. I never quite understood the control volume example (which is unfortunate because the book uses it over and over again), but I think that's something you're supposed to understand in undergraduate hydraulics. But the material that is actually part of this class was easy to follow and understand. Not very many examples, but the examples provided are good ones. It didn't lose me until we got to numerical methods (but I really didn't have much time to study at that point either).It drags a bit in the beginning of each chapter, talking a lot about history and development of methods before getting into the mechanics of how they work. But it does have a rhythm to it. Once you get used to it you can quickly skim over the history stuff and read the more applicable information.Not a lot of detail in this, I know. I guess the bottom line is that this is one textbook that I intend to keep in my reference library (I tossed all my undergrad books on the subject).

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