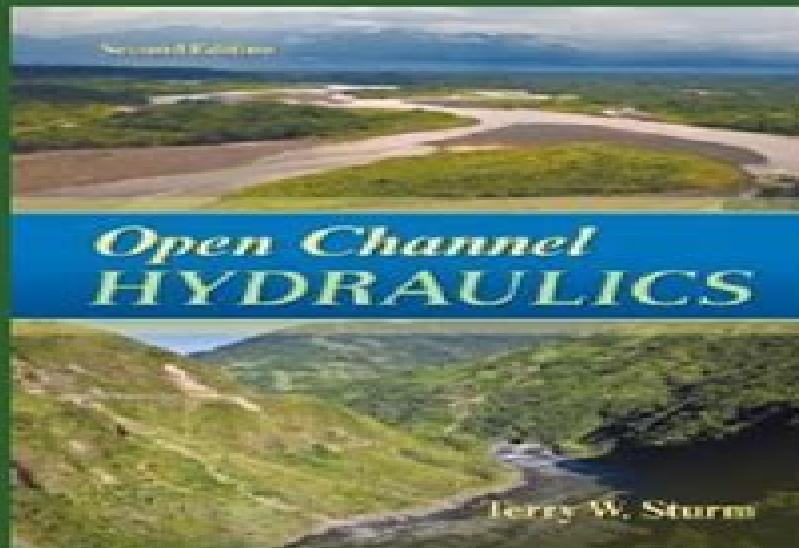


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problem Presents modern shock capturing finite volume methods for the computation of unsteady free surface flows  
Introduces readers to movable bed and sediment transport in shallow water models Includes numerical solutions of shallow water hydraulic models for non hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students given that the theory and numerical methods are progressively introduced starting with the basics As supporting material a collection of source codes written in Visual Basic and inserted as macros in Microsoft Excel is available The theory is implemented step by step in the codes and the resulting programs are used throughout the book to produce the respective solutions     Advances in Hydraulics and Hydroinformatics Jianguo Zhou,Jianmin Zhang,Yong Peng,Alistair Borthwick,2020-12-29

This Special Issue reports on recent research trends in hydraulics hydrodynamics and hydroinformatics and their novel applications in practical engineering The Issue covers a wide range of topics including open channel flows sediment transport dynamics two phase flows flow induced vibration and water quality The collected papers provide insight into new developments in physical mathematical and numerical modelling of important problems in hydraulics and hydroinformatics and include demonstrations of the application of such models in water resources engineering     *Introduction to Environmental Modeling* William G. Gray,Genetha A. Gray,2016-12-28

This textbook presents an understanding of how basic physical descriptions can be translated into mathematical analogues that provide an opportunity to investigate environmental processes Examples come from a range of hydrologic atmospheric and geophysical problems The emphasis is on simple examples and calculations that add to understanding The book provides a sense for the meaning of mathematical expressions a physical feel for their relations to processes and confidence in working with mathematical solutions The goal of this book in essence is to present the timeless basic physical and mathematical principles and philosophy of environmental modeling often to students who need to be taught how to think in a different way than they would for more narrowly defined engineering or physics problems Minimum prerequisites for the student reader include a knowledge of calculus through differential equations but the book provides the mathematical and physical tools needed as the occasion arises     **Energy Research Abstracts** ,1984     *Open-channel Hydraulics* Richard H.

French,1994-01 This book was originally designed as a state of the art reference book for the practising professional but the addition of homework problems for the primary chapters and a solutions manual has made it also very suitable as a textbook for courses in open channel hydraulics in civil engineering The homework problems were drawn from the author's many years of experience teaching in civil engineering and consultancy work     **Ingeniería hidráulica en México** ,2001

*Hydraulic Pneumatic Mechanical Power Drives, Transmissions and Controls* ,1976     *Open Channel Hydraulics* Terry W. Sturm,2010     **Forthcoming Books** Rose Arny,2001     *The Builder* ,1894     **Books in Print Supplement** ,1982  
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