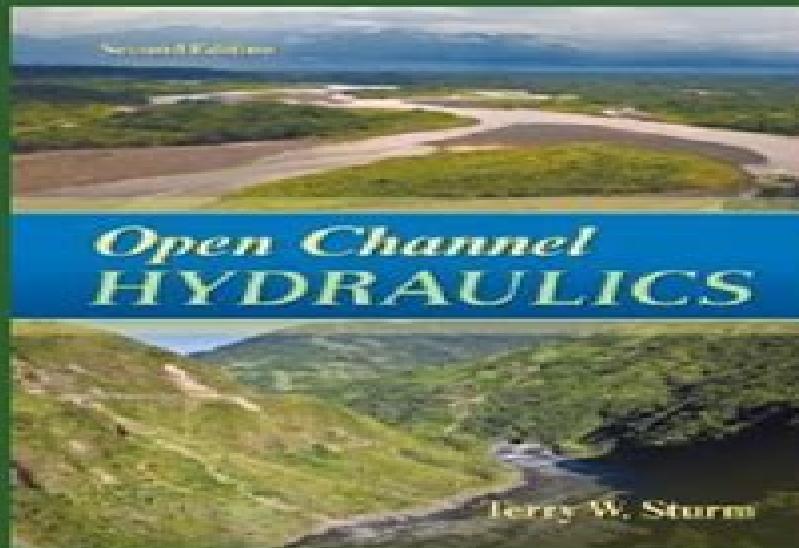


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Modern Water Resources Engineering Lawrence K. Wang, Chih Ted Yang, 2014-01-11 The Handbook of Environmental Engineering series is an incredible collection of methodologies that study the effects of pollution and waste in their three basic forms gas solid and liquid This exciting new addition to the series Volume 15 Modern Water Resources Engineering has been designed to serve as a water resources engineering reference book as well as a supplemental textbook We hope and expect it will prove of equal high value to advanced undergraduate and graduate students to designers of water resources systems and to scientists and researchers A critical volume in the Handbook of Environmental Engineering series chapters employ methods of practical design and calculation illustrated by numerical examples include pertinent cost data whenever possible and explore in great detail the fundamental principles of the field Volume 15 Modern Water Resources Engineering provides information on some of the most innovative and ground breaking advances in the field today from a panel of esteemed experts

Open Channel Hydraulics Terry W. Sturm, 2001 A comprehensive overview of stormwater and wastewater collection methods from around the world written by leading experts in the field Includes detailed analysis of system designs operation maintenance and rehabilitation Includes recent research advances and personal computer applications

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the formulation of open channel flow problems Coverage includes Basic principles Specific energy Momentum Uniform flow Gradually varied flow Hydraulic structures Governing unsteady flow equations and numerical solutions Simplified methods of flow routing Flow in alluvial channels Three dimensional CFD modeling for open channel flows

Hydraulics of Open Channel Flow Sergio Montes,1998 This book emphasizes the dynamics of the open channel flow by attempting to provide a complete framework of the basic equation of fluid motion which is used as a building block for the treatment of many practical problems It provides up to date coverage of modern techniques while providing a more rigorous analytical foundation for those who require it The structure follows a logical progression from a description and classification of open channel flows through a development of the basic equations of motion for steady and unsteady flow to an analysis of varied cases of flow

Computational Hydraulics Ioana Popescu,2014-08-14 Computational Hydraulics introduces the concept of modeling and the contribution of numerical methods and numerical analysis to modeling It provides a concise and comprehensive description of the basic hydraulic principles and the problems addressed by these principles in the aquatic environment Flow equations numerical and analytical solutions are included The necessary steps for building and applying numerical methods in hydraulics comprise the core of the book and this is followed by a report of different example applications of computational hydraulics river training effects on flood propagation water quality modelling of lakes and coastal applications The theory and exercises included in the book promote learning of concepts within academic environments Sample codes are made available online for purchasers of the book Computational Hydraulics is intended for under graduate and graduate students researchers members of governmental and non governmental agencies and professionals involved in management of the water related problems Author Ioana Popescu Hydroinformatics group UNESCO IHE Institute for Water Education Delft The Netherlands

Open-channel Flow M. Hanif Chaudhry,1993 Explores open channel flow with a focus on water supply hydropower flood control drainage and navigation Steady and unsteady flows are discussed in detail with an emphasis throughout on modern methods of analysis suitable for computer solution

Shallow Water Hydraulics Oscar Castro-Orgaz,Willi H. Hager,2019-11-08 This book presents the theory and computation of open channel flows using detailed analytical numerical and experimental results The fundamental equations of open channel flows are derived by means of a rigorous vertical integration of the RANS equations for turbulent flow In turn the hydrostatic pressure hypothesis which forms the core of many shallow water hydraulic models is scrutinized by analyzing its underlying assumptions The book s main focus is on one dimensional models including detailed treatments of unsteady and steady flows The use of modern shock capturing finite difference and finite volume methods is described in detail and the quality of solutions is carefully assessed on the basis of analytical and experimental results The book s unique features include Rigorous derivation of the hydrostatic based shallow water hydraulic models Detailed treatment of steady open channel flows including the computation of transcritical flow profiles General analysis of gate maneuvers as the solution of a Riemann

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

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