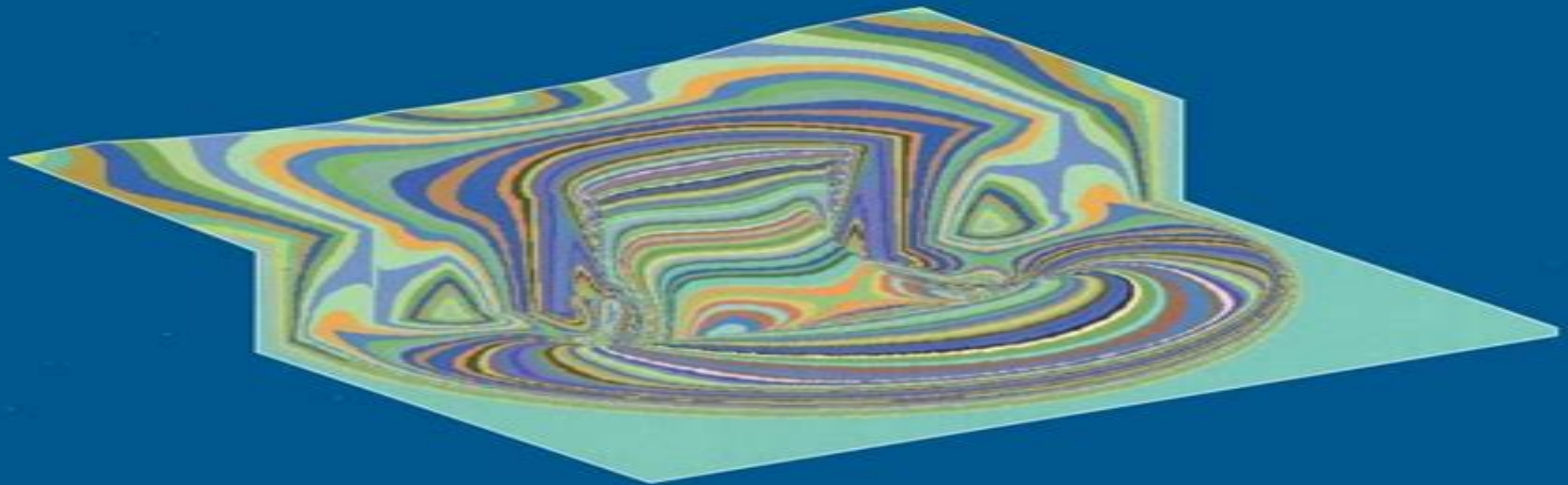


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Shock-Capturing Methods for Free-Surface Shallow Flows



Eleuterio F. Toro

Shock Capturing Methods For Free Surface Shallow Flows

Barry Koren, Kees Vuik



Shock Capturing Methods For Free Surface Shallow Flows:

Shock-Capturing Methods for Free-Surface Shallow Flows E. F. Toro, 2001-03-30 The first of its kind in the field this title examines the use of modern shock capturing finite volume numerical methods in the solution of partial differential equations associated with free surface flows which satisfy the shallow water type assumption including shallow water flows dense gases and mixtures of materials as special samples Starting with a general presentation of the governing equations for free surface shallow flows and a discussion of their physical applicability the book goes on to analyse the mathematical properties of the equations in preparation for the presentation of the exact solution of the Riemann problem for wet and dry beds After a general introduction to the finite volume approach several chapters are then devoted to describing a variety of modern shock capturing finite volume numerical methods including Godunov methods of the upwind and centred type Approximate Riemann solvers following various approaches are studied in detail as is their use in the Godunov approach for constructing low and high order upwind TVD methods Centred TVD schemes are also presented Two chapters are then devoted to practical applications The book finishes with an overview of potential practical applications of the methods studied along with appropriate reference to sources of further information Features include Algorithmic and practical presentation of the methods Practical applications such as dam break modelling and the study of bore reflection patterns in two space dimensions Sample computer programs and accompanying numerical software details available at www.numeritek.com The book is suitable for teaching postgraduate students of civil mechanical hydraulic and environmental engineering meteorology oceanography fluid mechanics and applied mathematics Selected portions of the material may also be useful in teaching final year undergraduate students in the above disciplines The contents will also be of interest to research scientists and engineers in academia and research and consultancy laboratories

Non-Hydrostatic Free Surface Flows Oscar Castro-Orgaz, Willi H. Hager, 2017-03-27 This book provides essential information on the higher mathematical level of approximation over the gradually varied flow theory also referred to as the Boussinesq type theory In this context it presents higher order flow equations together with their applications in a broad range of pertinent engineering and environmental problems including open channel groundwater and granular material flows

Shallow Flows Gerhard H. Jirka, Wim S.J. Uijttewaai, 2004-09-15 This text presents the key findings of the International Symposium held in Delft in 2003 which explored the process of shallow flows Shallow flows are found in lowland rivers lakes estuaries bays coastal areas and in density stratified atmospheres and may be observed in puddles as in oceans They impact on the life and work of a wide variety of readers who are here provided with a clear overview of the subject Shallow flows are intrinsically turbulent On one hand there are strongly three dimensional small scale turbulent motions and on the other hand large scale quasi two dimensional turbulence This book explains and examines these differences and their effects with sections on transport processes in shallow flows shallow jets wakes and mixing layers stratified and rotating flows in ocean and atmosphere river

and channel flows and numerical modelling and turbulence closure techniques The reader is provided with the pick of current studies and a fresh approach to the subject with expert examination of a fascinating and crucial phenomenon of our world's water systems

Meshfree Methods for Partial Differential Equations VIII Michael Griebel, Marc Alexander Schweitzer, 2017-04-05 There have been substantial developments in meshfree methods particle methods and generalized finite element methods since the mid 1990s The growing interest in these methods is in part due to the fact that they offer extremely flexible numerical tools and can be interpreted in a number of ways For instance meshfree methods can be viewed as a natural extension of classical finite element and finite difference methods to scattered node configurations with no fixed connectivity Furthermore meshfree methods have a number of advantageous features that are especially attractive when dealing with multiscale phenomena A priori knowledge about the solution's particular local behavior can easily be introduced into the meshfree approximation space and coarse scale approximations can be seamlessly refined by adding fine scale information However the implementation of meshfree methods and their parallelization also requires special attention for instance with respect to numerical integration

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

Free-Surface Flow Nikolaos D. Katopodes, 2018-10-31 Free Surface Flow Computational Methods presents a detailed analysis of numerical schemes for shallow water waves It includes practical applications for the numerical simulation of flow and transport in rivers and estuaries the dam break problem and overland flow Closure models for turbulence such as Reynolds Averaged Navier Stokes

and Large Eddy Simulation are presented coupling the aforementioned surface tracking techniques with environmental fluid dynamics While many computer programs can solve the partial differential equations describing the dynamics of fluids many are not capable of including free surfaces in their simulations Provides numerical solutions of the turbulent Navier Stokes equations in three space dimensions Includes closure models for turbulence such as Reynolds Averaged Navier Stokes and Large Eddy Simulation Practical applications are presented for the numerical simulation of flow and transport in rivers and estuaries the dam break problem and overland flow Advanced Computational Methods in Science and Engineering Barry Koren, Kees Vuik, 2010-04-29 The aim of the present book is to show in a broad and yet deep way the state of the art in computational science and engineering Examples of topics addressed are fast and accurate numerical algorithms model order reduction grid computing immersed boundary methods and specific computational methods for simulating a wide variety of challenging problems problems such as fluid structure interaction turbulent flames bone fracture healing micro electro mechanical systems failure of composite materials storm surges particulate flows and so on The main benefit offered to readers of the book is a well balanced up to date overview over the field of computational science and engineering through in depth articles by specialists from the separate disciplines *River Flow 2020* Wim Uijttewaai, Mário J. Franca, Daniel Valero, Victor Chavarrias, Clàudia Ylla Arbós, Ralph Schielen, Alessandra Crosato, 2020-08-27 Rivers form one of the lifelines in our society by providing essential services such as availability of fresh water navigation energy ecosystem services and flood conveyance Because of this essential role mankind has interfered continuously in order to benefit most and at the same time avoid adverse consequences such as flood risk and droughts This has resulted in often highly engineered rivers with a narrow set of functions In the last decades rivers are increasingly considered in a more holistic manner as a system with a multitude of interdependent processes River research and engineering has therefore added to the river fundamentals also themes like ecohydraulics consequences of climate change and urbanisation River Flow 2020 contains the contributions presented at the 10th conference on Fluvial Hydraulics River Flow 2020 organised under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR What should have been a lively physical gathering of researchers students and practitioners was converted into an online event as the COVID 19 pandemic hindered international travelling and large gatherings of people Nevertheless the fluvial hydraulics community showed their interest and to be very much alive with a high number of participations for such event Since its first edition in 2002 in Louvain la Neuve this series of conferences has found a large and loyal audience in the river research and engineering community while being also attractive to the new researchers and young professionals This is highlighted by the large number of contributions applying for the Coleman award for young researchers and also by the number of applications and attendants to the Master Classes which are aimed at young researchers and students River Flow 2020 aims to provide an updated overview of the ongoing research in this wide range of topics and contains five major themes which are focus of

research in the fluvial environment river fundamentals the digital river the healthy river extreme events and rivers under pressure Other highlights of River Flow 2020 include the substantial number of interdisciplinary subthemes and sessions of special interest The contributions will therefore be of interest to academics in hydraulics hydrology and environmental engineering as well as practitioners that would like to be updated about the newest findings and hot themes in river research and engineering

Unsteady Flow in Open Channels Jurjen A. Battjes, Robert Jan Labeur, 2017-02-16 Practitioners in water engineering rely on a thorough understanding of shallow water flows in order to safeguard our habitat while at the same time sustaining the water environment This book proposes a unified theoretical framework for the different types of shallow flow providing a coherent approach to interpret the behaviour of such flows and highlighting the similarities and differences Every major topic in the book is accompanied by worked examples illustrating the theoretical concepts Practical examples showcasing inspiring research and engineering applications from the past and present provide insight into how the theory developed The book is also supplemented by a range of online resources available at www.cambridge.org/battjes including problem sets and computer codes A solutions manual is available for instructors This book is intended for students and professionals working in environmental water systems in areas such as coasts rivers harbours drainage and irrigation canals

Urban Water Cycle Modelling and Management Meenakshi Arora, Hector Malano, 2018-09-04 This book is a printed edition of the Special Issue Urban Water Cycle Modelling and Management that was published in Water

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