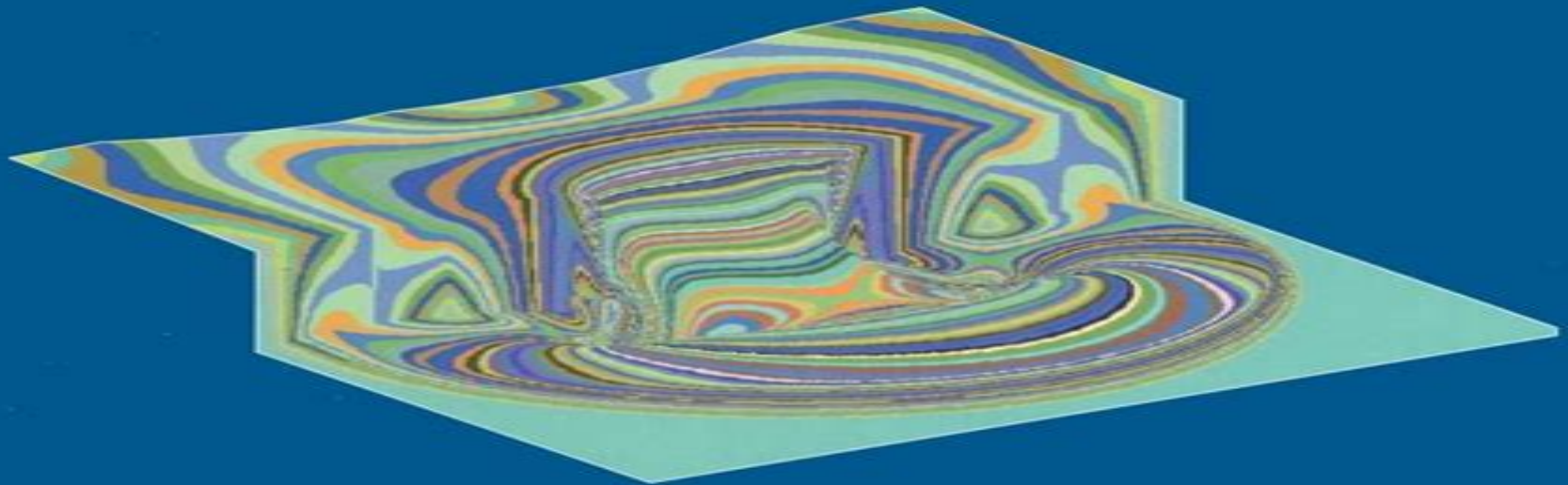


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Shock-Capturing Methods for Free-Surface Shallow Flows



Eleuterio F. Toro

Shock Capturing Methods For Free Surface Shallow Flows

Jane McKee Smith



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

Advances in Spatio-Temporal Analysis Xinming Tang, Yaolin Liu, Jixian Zhang, Wolfgang Kainz, 2007-08-23 Developments in Geographic Information Technology have raised the expectations of users A static map is no longer enough there is now demand for a dynamic representation Time is of great importance when operating on real world geographical phenomena especially when these are dynamic Researchers in the field of Temporal Geographical Information Systems TGIS have been developing methods of incorporating time into geographical information systems Spatio temporal analysis embodies spatial modelling spatio temporal modelling and spatial reasoning and data mining Advances in Spatio Temporal Analysis contributes to the field of spatio temporal analysis presenting innovative ideas and examples that reflect current progress and achievements

Efficient Numerical Methods and Information-Processing Techniques for Modeling Hydro- and Environmental Systems Reinhard Hinkelmann, 2006-08-10 Numerical simulation models have become indispensable in hydro and environmental sciences and engineering This monograph presents a general introduction to numerical simulation in environment water based on the solution of the equations for groundwater flow and transport processes for multiphase and multicomponent flow and transport processes in the subsurface as well as for flow and transport processes in surface waters It displays in detail the state of the art of discretization and stabilization methods e.g. finite difference finite element and finite volume methods parallel methods and adaptive methods as well as fast solvers with particular focus on explaining the interactions of the different methods The book gives a brief overview of various information processing techniques and demonstrates the interactions of the numerical methods with the information processing techniques in order to achieve efficient numerical simulations for a wide range of applications in environment water

Hyperbolic Problems: Theory, Numerics, Applications Sylvie Benzoni-Gavage, Denis Serre, 2008-01-12 This volume contains papers that were presented at HYP2006 the eleventh international Conference on Hyperbolic Problems Theory Numerics and Applications This biennial series of conferences has become one of the most important international events in Applied Mathematics As computers became more and more powerful the interplay between theory modeling and numerical algorithms gained considerable impact and the scope of HYP conferences expanded accordingly

Flood Risk Management in Europe Selina Begum, Marcel J.F. Stive, Jim W. Hall, 2007-06-17 In recent years major floods have occurred across Europe causing serious damages and huge financial implications Flood risk and vulnerability is increasing with increased frequency of occurrence of extreme events due to climate change changes in land use encroachment into floodplains and increasing economic value of assets and businesses Human lives property environment and socio economics are at increasing risk due to flooding Recent alarming events in Central Europe UK and The Netherlands have provided renewed impetus to the development of improved policies and techniques for flood risk management across Europe Sharing

of knowledge and understanding of the practical problems dilemmas and challenges will aid in the development and implementation of new technologies and strategies of the challenging issues of flood risk management in Europe This valuable edition brings together 26 peer reviewed articles on technical socio economic environmental and policy aspects of flood risk management These articles contribute to the five sections with the general themes i flood risk management practice ii flood events and impacts iii flood analysis and modelling iv flood forecasting and v flood risk management policy Some emerging technologies are presented and several future challenges are identified Thus the book *Flood Risk Management in Europe Innovation in Policy and Practice* with a multi disciplinary combination of articles will form an excellent reference for the engineers scientists planners policy makers researchers insurance industry and all the practitioners involved in flood risk management and its sub disciplines in engineering hydrology environmental studies coastal management economics and public policy

Progress in Industrial Mathematics at ECMI 2006 Luis L. Bonilla,Miguel Moscoso,Gloria Platero,Jose M. Vega,2007-12-24 Proceedings from the 14th European Conference for Mathematics in Industry held in Madrid present innovative numerical and mathematical techniques Topics include the latest applications in aerospace information and communications materials energy and environment imaging biology and biotechnology life sciences and finance In addition the conference also delved into education in industrial mathematics and web learning

Godunov-type Schemes V. Guinot,2003-01-29 Godunov type schemes appear as good candidates for the next generation of commercial modelling software packages the capability of which to handle discontinuous solution will be a basic requirement It is in the interest of practising engineers and developers to be familiar with the specific features of discontinuous wave propagation problems and to be aware of the possibilities offered by Godunov type schemes for their solution This book aims to present the principles of such schemes in a way that is easily understandable to practising engineers The features of hyperbolic conservation laws and their solutions are presented in the first two chapters The principles of Godunov type schemes are outlined in a third chapter Chapters 4 and 5 cover the application of the original Godunov scheme to scalar laws and to hyperbolic systems of conservation laws respectively Chapter 6 is devoted to higher order schemes in one dimension of space The design of such a scheme is described for the general case and applied to some well known schemes such as the MUSCL and PPM schemes Chapter 7 focuses on multidimensional problems The classical alternate directions and finite volume approaches are presented together with the wave splitting technique that is described in depth with an application to two dimensional systems Chapter 8 deals with large time step algorithms These include front tracking based methods explicit implicit techniques and the time line interpolation technique Three appendices provide notions on accuracy and stability issues Riemann solvers and the user instructions for the computational codes provided in the enclosed CD ROM

Numerical Techniques for Global Atmospheric Models Peter H. Lauritzen,Christiane Jablonowski,Mark A. Taylor,Ramachandran D. Nair,2011-03-29 This book surveys recent developments in numerical

techniques for global atmospheric models It is based upon a collection of lectures prepared by leading experts in the field The chapters reveal the multitude of steps that determine the global atmospheric model design They encompass the choice of the equation set computational grids on the sphere horizontal and vertical discretizations time integration methods filtering and diffusion mechanisms conservation properties tracer transport and considerations for designing models for massively parallel computers A reader interested in applied numerical methods but also the many facets of atmospheric modeling should find this book of particular relevance *Degradations and Instabilities in Geomaterials* Félix Darve, Ioannis Vardoulakis, 2014-05-04 This book presents the most recent developments in the modelling of degradations of thermo chemical origin and of bifurcations and instabilities leading to localized or diffuse failure modes taking place in geomaterials soils rocks concrete Applications landslides rockfalls debris flows concrete and rock ageing etc are discussed in detail *Informatics, Networking and Intelligent Computing* Jiaying Zhang, 2015-05-06 This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics Networking and Intelligent Computing held in Shenzhen China Contributions cover the latest developments and advances in the field of Informatics Networking and Intelligent Computing **Computational River Dynamics** Weiming Wu, 2007-11-15 Comprehensive text on the fundamentals of modeling flow and sediment transport in rivers treating both physical principles and numerical methods for various degrees of complexity Includes 1 D 2 D both depth and width averaged and 3 D models as well as the integration and coupling of these models Contains a broad selection **Coastal Cities and their Sustainable Future** G.R. Rodriguez, C.A. Brebbia, 2015-09-15 This book contains papers presented at the International Conference on Coastal Cities and their Sustainable Future First held in 2015 the conference evolved from a series of conferences on coastal processes sustainable development and city sustainability that began in 1992 The growth of world population and the preference for living in coastal areas has resulted in their ever increasing development Coastal areas are the most common destination which brings in economic growth but implies additional urban development and increases the need for resources infrastructure and services The activities common to coastal cities require the development of well planned and managed urban environments not only for reasons of efficiency and economics but also to avoid inflicting environmental degradation and the resultant deterioration of quality of life and human health To resolve these problems it is necessary to consider coastal cities as dynamic complex systems which need energy water food and other resources in order to work and generate diverse activities with the aim of offering a socioeconomic climate and better quality of life As a consequence it is essential to integrate the management and sustainable development of coastal cities with science technology architecture socio economics and planning all collaborating to provide support to decision makers Because of the complex nature of such integrated planning the support of computational models is essential in order for planners to explore various options and to forecast future services and plans These models seek to simulate the dynamic of coastal cities leading to potential solutions The

multidisciplinary papers in the book examine some of the possible models and potential solutions Contents include topics such as Landscape and urban planning and design The coastal city and its environs Infrastructures and eco architecture City heritage and regeneration Urban transport and communications Commercial ports fishing and sports harbours Energy systems Water resources management City Waterfront interaction Coastal city beaches Quality of life and city leisure Tourism and the city Coastal processes Water pollution Air pollution City waste management Acoustical and thermal pollution Coastal risk assessment Coastal flooding Landslides Emergency plans and evacuation systems Health services management Intercity issues Socio economic issues Legal aspects Modelling and simulation of coastal city systems *River Basin Management* V C. A. Brebbia, 2009-08-25 Sumary In this valuable contribution to the field of river basin management Brebbia Wessex Institute of Technology UK compiles 35 papers from a conference that presented recent advances in all aspects of hydrology including ecology environmental management flood plains and wetlands Academics and practitioners address the planning design and management of riverine systems including the development of software modeling and GIS tools for predicting water flow water quality sediment transport and ecological processes Case studies of national regional and international challenges priorities and agreements treat topics including erosion control systems climate change and conflicts between hydropower generation and fish habitat interests Illustrations include drinking water catchment areas hydrographs and areas of pre and post flooding restoration *Turbulence in River and Maritime Hydraulics* Michele Mossa, Donatella Termini, Peter A. Davies, 2019-03-08 Understanding of the role of turbulence in controlling transport processes is of paramount importance for the preservation and protection of aquatic ecosystems the minimization of the deleterious consequences of anthropogenic activity and the successful sustainable development of river and maritime areas In this context the present Special Issue collects 15 papers which provide a representation of the present understanding of turbulent processes and their effects in river and maritime environments The presented collection of papers is not exhaustive but it highlights the key priority areas and knowledge gaps in this field of research The published papers present the state of the art knowledge of complex environmental flows which are useful for researchers and practitioners The paper contents are an overview of some recent topics of research and an exposure of the current and future challenges associated with these topics *Coastal Engineering 2002* Jane McKee Smith, 2003 This book contains more than 300 papers presented at the 28th International Conference on Coastal Engineering held in Cardiff Wales in July 2002 It is divided into five parts coastal waves nearshore currents swash and long waves coastal structures sediment transport and coastal morphology beach nourishment and coastal management The papers cover a broad range of topics including theory numerical and physical modeling field measurements case studies design and management Coastal Engineering 2002 provides engineers scientists and planners with state of the art information on coastal engineering and coastal processes **Coastal Engineering 2002: Solving Coastal Conundrums - Proceedings Of The 28th International Conference (In 3 Vols)** Jane McKee Smith, 2003-03-14

This book contains more than 300 papers presented at the 28th International Conference on Coastal Engineering held in Cardiff Wales in July 2002. It is divided into five parts: coastal waves, nearshore currents, swash and long waves, coastal structures, sediment transport and coastal morphology, beach nourishment and coastal management. The papers cover a broad range of topics including theory, numerical and physical modeling, field measurements, case studies, design and management. Coastal Engineering 2002 provides engineers, scientists and planners with state-of-the-art information on coastal engineering and coastal processes.

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.

Mathematical and Numerical Aspects of Wave Propagation WAVES 2003 Gary Cohen, Erkki Heikkola, Patrick Joly, Pekka Neittaanmäki, 2012-12-06. This volume includes articles on the mathematical modeling and numerical simulation of various wave phenomena. For many years, Waves 2003 and its five prior conferences have been an important forum for discussions on wave propagation. The topic is equally important for fundamental sciences, engineering, mathematics, and in particular for industrial applications. Areas of specific interest are acoustics, electromagnetics, elasticity, and related inverse and optimization problems. This book gives an extensive overview of recent developments in a very active field of scientific computing.

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