NUMERICAL METHODS FOR SHALLOW-WATER FLOW

by

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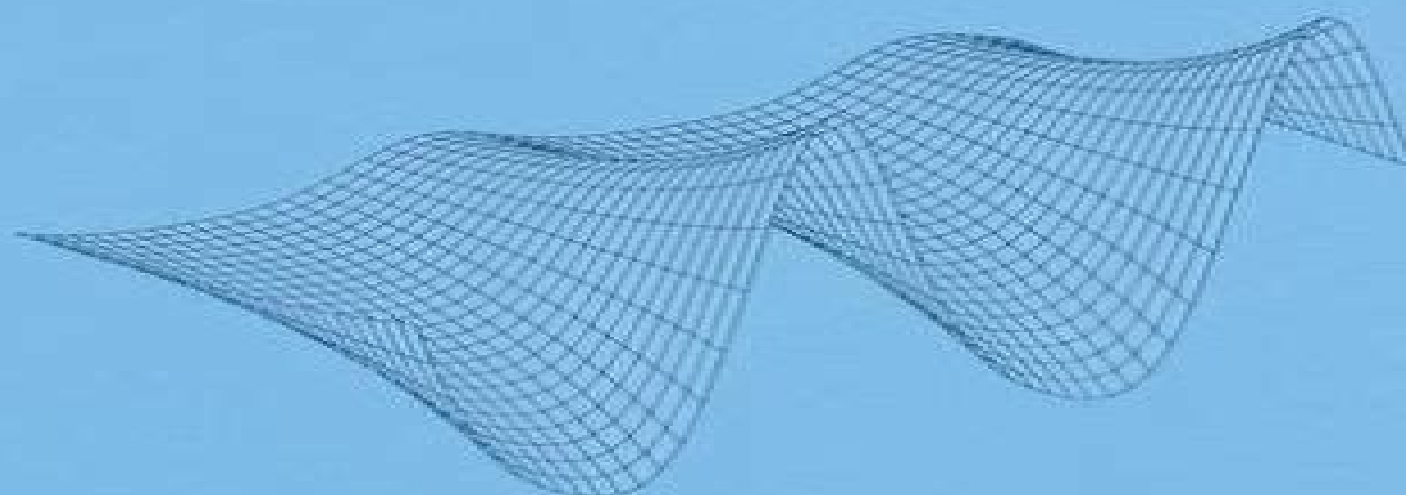
Numerical Methods For Shallow Water Flow

Gayaz Khakimzyanov,Denys Dutykh,Zinaida Fedotova,Oleg Gusev

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Numerical Methods for Shallow-Water Flow C.B. Vreugdenhil,1994-10-31 A wide variety of problems are associated with the flow of shallow water such as atmospheric flows tides storm surges river and coastal flows lake flows tsunamis Numerical simulation is an effective tool in solving them and a great variety of numerical methods are available The first part of the book summarizes the basic physics of shallow water flow needed to use numerical methods under various conditions The second part gives an overview of possible numerical methods together with their stability and accuracy properties as well as with an assessment of their performance under various conditions This enables the reader to select a method for particular applications Correct treatment of boundary conditions often neglected is emphasized The major part of the book is about two dimensional shallow water equations but a discussion of the 3 D form is included The book is intended for researchers and users of shallow water models in oceanographic and meteorological institutes hydraulic engineering and consulting It also provides a major source of information for applied and numerical mathematicians **Numerical Methods for Shallow-Water Flow** C.B. Vreugdenhil,2012-12-22 A wide variety of problems are associated with the flow of shallow water such as atmospheric flows tides storm surges river and coastal flows lake flows tsunamis Numerical simulation is an effective tool in solving them and a great variety of numerical methods are available The first part of the book summarizes the basic physics of shallow water flow needed to use numerical methods under various conditions The second part gives an overview of possible numerical methods together with their stability and accuracy properties as well as with an assessment of their performance under various conditions This enables the reader to select a method for particular applications Correct treatment of boundary conditions often neglected is emphasized The major part of the book is about two dimensional shallow water equations but a discussion of the 3 D form is included The book is intended for researchers and users of shallow water models in oceanographic and meteorological institutes hydraulic engineering and consulting It also provides a major source of information for applied and numerical mathematicians **Lattice Boltzmann Methods for Shallow Water Flows** Jian Guo Zhou,2013-03-14 The lattice Boltzmann method LBM is a modern numerical technique very efficient flexible to simulate different flows within complex varying geome tries It is evolved from the lattice gas automata LGA in order to overcome the difficulties with the LGA The core equation in the LBM turns out to be a special discrete form of the continuum Boltzmann equation leading it to be self explanatory in statistical physics The method describes the micro scopic picture of particles movement in an extremely simplified way and on the macroscopic level it gives a correct average description of a fluid The av eraged particle velocities behave in time and space just as the flow velocities in a physical fluid showing a direct link between discrete microscopic and continuum macroscopic phenomena In contrast to the traditional computational fluid dynamics CFD based on a direct solution of flow equations the lattice Boltzmann method provides an indirect way for solution of the flow equations The method is characterized by simple calculation parallel process and easy implementation of boundary

conditions It is these features that make the lattice Boltzmann method a very promising computational method in different areas In recent years it receives extensive attentions and becomes a very potential research area in computational fluid dynamics However most published books are limited to the lattice Boltzmann methods for the Navier Stokes equations On the other hand shallow water flows exist in many practical situations such as tidal flows waves open channel flows and dam break 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 Dispersive Shallow Water Waves Gayaz Khakimzyanov,Denys Dutykh,Zinaida Fedotova,Oleg Gusev,2020-09-15 This monograph presents cutting edge research on dispersive wave modelling and the numerical methods used to simulate the propagation and generation of long surface water waves Including both an overview of existing dispersive models as well as recent breakthroughs the authors maintain an ideal balance between theory and applications From modelling tsunami waves to smaller scale coastal processes this book will be an indispensable resource for those looking to be brought up to date in this active area of scientific research Beginning with an introduction to various dispersive long wave models on the flat space the authors establish a foundation on which readers can confidently approach more advanced mathematical models and numerical techniques The first two chapters of the book cover modelling and numerical simulation over globally flat spaces including adaptive moving grid

methods along with the operator splitting approach which was historically proposed at the Institute of Computational Technologies at Novosibirsk Later chapters build on this to explore high end mathematical modelling of the fluid flow over deformed and rotating spheres using the operator splitting approach The appendices that follow further elaborate by providing valuable insight into long wave models based on the potential flow assumption and modified intermediate weakly nonlinear weakly dispersive equations Dispersive Shallow Water Waves will be a valuable resource for researchers studying theoretical or applied oceanography nonlinear waves as well as those more broadly interested in free surface flow dynamics

The Finite Element Method for Fluid Dynamics R. L. Taylor,P. Nithiarasu,2024-11-20 The Finite Element Method for Fluid Dynamics provides a comprehensive introduction to the application of the finite element method in fluid dynamics The book begins with a useful summary of all relevant partial differential equations progressing to the discussion of convection stabilization procedures steady and transient state equations and numerical solution of fluid dynamic equations In this expanded eighth edition the book starts by explaining the character based split CBS scheme followed by an exploration of various other methods including SUPG PSPG space time and VMS methods Emphasising the fundamental knowledge mathematical and analytical tools necessary for successful implementation of computational fluid dynamics CFD The Finite Element Method for Fluid Dynamics stands as the authoritative introduction of choice for graduate level students researchers and professional engineers A proven keystone reference in the library for engineers seeking to grasp and implement the finite element method in fluid dynamics Founded by a prominent pioneer in the field this eighth edition has been updated by distinguished academics who worked closely with Olgierd C Zienkiewicz Includes new chapters on data driven computational fluid dynamics and independent adaptive mesh and buoyancy driven flow chapters **Numerical Solution of the Shallow-water Equations** F. W. Wubs,1988 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 *Numerical Methods for the Three-dimensional Shallow Water Equations on Supercomputers* E. D. de Goede,1993 Holl Zusammenfass *On the Construction of Computational Methods for Shallow Water Flow Problems* G. S. Stelling,1984 **Hydrobiological Modelling** Brian J. Williams,2006 The book describes models of aquatic ecosystems ranging from lakes to estuaries to the deep ocean It provides a background in the physical and biological processes numerical methods and elementary ecosystem models It describes two of the most widely used hydrodynamic models and presents a number of case studies The practice of modelling in management is discussed **Hydrodynamics : Theory and Applications** A. T. Chwang,Joseph H. W. Lee,D. Y. C. Leung,1996 Shallow Flows Gerhard H. Jirka,Wim S.J. Uijttewaal,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 <u>Scientific and Technical Aerospace Reports</u> ,1991 <u>Godunov Methods</u> E.F. Toro,2001-12-31 This edited review book on Godunov methods contains 97 articles all of which were presented at the international conference on Godunov Methods Theory and Applications held at Oxford in October 1999 to commemo rate the 70th birthday of the Russian mathematician Sergei K Godunov The meeting enjoyed the participation of 140 scientists from 20 countries one of the participants commented everyone is here meaning that virtu ally everybody who had made a significant contribution to the general area of numerical methods for hyperbolic conservation laws along the lines first proposed by Godunov in the fifties was present at the meeting Sadly there were important absentees who due to personal circumstance could not at tend this very exciting gathering The central theme o the meeting and of this book was numerical methods for hyperbolic conservation laws fol lowing Godunov s key ideas contained in his celebrated paper of 1959 But Godunov s contributions to science are not restricted to Godunov s method **Computer Modeling of Free-Surface and Pressurized Flows** M. Hanif Chaudhry,L. Mays,2012-12-06 Computers are widely used for the analysis design and operation of water resource projects This gives accurate results allowing the analysis of complex systems which may not have been possible otherwise and the investigation and comparison of several different alternatives in a short time thereby reducing the project costs optimizing design and efficient utilization of resources This volume compiles an edited version of the lecture notes specially prepared by 14 well known European and North American researchers Part I deals with free surface flows Governing equations are derived and their solution by the finite difference finite element and boundary integral methods are discussed Then turbulence models three dimensional models dam break flow models sediment transport models and flood routing models are presented Part II is related to the modeling of steady and transient pressurized flows Governing equations for both single and two component flows are derived and numerical methods for their solution are presented The modeling of water quality in pipe networks of cooling water systems and slow and rapid transients is then discussed **Environmental Hydraulics and Sustainable Water Management, Two Volume Set** J.H.W. Lee,K.M. Lam,2004-12-15 This two volume set with cd rom comprises the Proceedings of the 4th International Symposium on

Environmental Hydraulics the 14th Congress of Asia and Pacific Division International Association of Hydraulic Engineering and Research held in December 2004 in Hong Kong Volume 1 covers the selected papers presented at the 4th Internation

Coanda Effect Noor A Ahmed,2019-08-28 Coanda effect is a complex fluid flow phenomenon enabling the production of vertical take off landing aircraft Other applications range from helicopters to road vehicles from flow mixing to combustion from noise reduction to pollution control from power generation to robot operation and so forth Book starts with description of the effect its history and general formulation of governing equations simplifications used in different applications Further it gives an account of this effect s lift boosting potential on a wing and in non flying vehicles including industrial applications Finally occurrence of the same in human body and associated adverse medical conditions are explained Computational Fluid Dynamics Paul D. Bates,Stuart N. Lane,Robert I. Ferguson,2005-05-27 Uniquely outlines CFD theory in a manner relevant to environmental applications This book addresses the basic topics in CFD modelling in a thematic manner to provided the necessary theoretical background as well as providing global cases studies showing how CFD models can be used in practice demonstrating how good practice can be achieved with reference to both established and new applications First book to apply CFD to the environmental sciences Written at a level suitable for non mathematicians *Computational Science – ICCS 2024* Leonardo Franco,Clélia de Mulatier,Maciej Paszynski,Valeria V. Krzhizhanovskaya,Jack J. Dongarra,Peter M. A. Sloot,2024-06-29 The 7 volume set LNCS 14832 14838 constitutes the proceedings of the 24th International Conference on Computational Science ICCS 2024 which took place in Malaga Spain during July 2 4 2024 The 155 full papers and 70 short papers included in these proceedings were carefully reviewed and selected from 430 submissions They were organized in topical sections as follows Part I ICCS 2024 Main Track Full Papers Part II ICCS 2024 Main Track Full Papers Part III ICCS 2024 Main Track Short Papers Advances in High Performance Computational Earth Sciences Numerical Methods Frameworks and Applications Artificial Intelligence and High Performance Computing for Advanced Simulations Part IV Biomedical and Bioinformatics Challenges for Computer Science Computational Health Part V Computational Optimization Modelling and Simulation Generative AI and Large Language Models LLMs in Advancing Computational Medicine Machine Learning and Data Assimilation for Dynamical Systems Multiscale Modelling and Simulation Part VI Network Models and Analysis From Foundations to Artificial Intelligence Numerical Algorithms and Computer Arithmetic for Computational Science Quantum Computing Part VII Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Artificial Intelligence Solving Problems with Uncertainties Teaching Computational Science

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