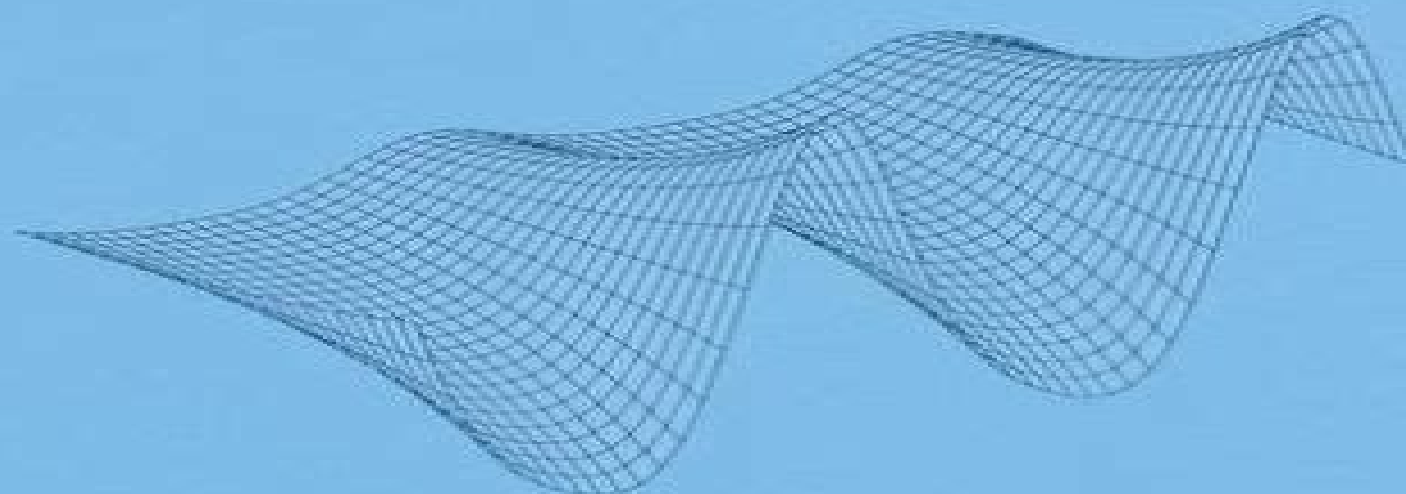


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# **NUMERICAL METHODS FOR SHALLOW-WATER FLOW**

by

C. B. Vreugdenhil



# Numerical Methods For Shallow Water Flow

**C.B. Vreugdenhil**



## **Numerical Methods For Shallow Water Flow:**

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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 geometries 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 microscopic picture of particles movement in an extremely simplified way and on the macroscopic level it gives a correct average description of a fluid The averaged 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](http://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

*Numerical Methods for the Three-dimensional Shallow Water Equations on Supercomputers* E. D. de Goede, 1993

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*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

**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 **Parallel**

**Computational Fluid Dynamics '98** Chiao-ling Lin,P. Fox,A. Ecer,N. Satofuka,Jacques Periaux,1999-05-26 This book contains the papers presented at the Parallel Computational Fluid Dynamics 1998 Conference The book is focused on new developments and applications of parallel technology Key topics are introduced through contributed papers and invited lectures These include typical algorithmic developments such as distributed computing domain decomposition and parallel algorithm Some of the papers address the evaluations of software and machine performance and software tool environments The application of parallel computers to complex fluid dynamics problems are also conveyed through sessions such as DNS LES combustion and reacting flows industrial applications water resources and environmental flows The editors believe this book will provide many researchers much beyond those contributing to this volume with fresh information and reference

**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 **River Basin Modelling for Flood Risk Mitigation** Donald Knight,Asaad Shamseldin,2005-11-17 Flooding accounts for one third of natural disasters worldwide and for over half the deaths which occur as a result of natural disasters As the frequency and volume of flooding increases as a result of climate change there is a new urgency amongst researchers and professionals working in flood risk management River Basin Modelling for Flood Risk Mitigation brings together thirty edited papers by leading experts who gathered for the European Union s Advanced Study Course at the University of Birmingham UK The scope of the course ranged from issues concerning the protection of life to river restoration and wetland management A variety of topics is covered in the book including climate change hydro informatics hydro meterology river flow forecasting systems and dam break modelling The approach is broad but integrated providing an attractive and informative package that will satisfy researchers and professionals while offering a sound introduction to students in Engineering and Geography **Advances in Fluid Mechanics** Dia Zeidan,Lucy T. Zhang,Eric

Goncalves Da Silva,Jochen Merker,2022-06-06 This edited book provides invited and reviewed contributions in mathematical physical and experimental modelling and simulations in all fluid mechanics branches Contributions explore the emerging and state of the art tools in the field authored by well established researchers to derive improved performance of modelling and simulations Serving the multidisciplinary fluid mechanics community this book aims to publish new research work that

enhances the prediction and understanding of fluid mechanics and balances from academic theory to practical applications through modelling numerical studies algorithms and simulation The book offers researchers students and practitioners significant insights on modelling and simulations in fluid mechanics It offers readers a range of academic contributions on fluid mechanics by researchers that have become leaders in their field The research work presented in this book will add values to the existing literature in terms of what needs to be done better to direct modelling and simulations towards a growing and rapidly developing field

**Godunov Methods** 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 commemorate 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 virtually 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 attend this very exciting gathering The central theme of the meeting and of this book was numerical methods for hyperbolic conservation laws following Godunov's key ideas contained in his celebrated paper of 1959 But Godunov's contributions to science are not restricted to Godunov's method

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 provide the necessary theoretical background as well as providing global case 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

*U.S. Geological Survey Circular*, 1933

*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

**1987 Annual Report on Alaska's Mineral Resources** Donald J. Orth, Jonathan K. Lee, David C. Froehlich, Roger L. Payne, 1984

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