

Shallow Flows

Edited by
Gerhard H. Jirka and Wim S. J. Oltewinkel

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Shallow Flows

Gerhard H. Jirka, Wim S.J. Uijttewaal



Shallow Flows:

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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

Large-Scale Simulation Dan Chen,Lizhe Wang,Jingying Chen,2012-05-29 Large Scale Simulation Models Algorithms and Applications gives you firsthand insight on the latest advances in large scale simulation techniques Most of the research results are drawn from the authors papers in top tier peer reviewed scientific conference proceedings and journals The first part of the book presents the fundamentals of large scale simulation including high level architecture and runtime infrastructure The second part covers middleware and software architecture for large scale simulations such as decoupled federate architecture fault tolerant mechanisms grid enabled simulation and federation communities In the third part the authors explore mechanisms such as simulation cloning methods and algorithms that support quick evaluation of alternative scenarios The final part describes how distributed computing technologies and many core architecture are used to study social phenomena Reflecting the latest research in the field this book guides you in using and further researching advanced models and algorithms for large scale distributed simulation These simulation tools will help you gain insight into large scale systems across many disciplines

Handbook of Environmental Fluid Dynamics, Volume One Harindra Joseph Fernando,2012-12-12 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field the two volume Handbook of Environmental Fluid Dynamics presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the study of environmental motions It also offers critical discussions of environmental sustainability related to engineering The handbook features 81 chapters written by 135 renowned researchers from around the world Covering environmental policy biological and chemical aspects it tackles important cross disciplinary topics such as sustainability ecology pollution micrometeorology and limnology Volume One Overview and Fundamentals provides a comprehensive overview of the basic principles It starts with general topics that emphasize the relevance of environmental fluid dynamics research in society public policy infrastructure quality of life security and the law It then discusses established and emerging focus areas The volume also examines the sub mesoscale flow processes and phenomena that form the building blocks of environmental motions with emphasis on turbulent motions and their role in heat momentum and species transport As communities face existential challenges posed by climate change rapid urbanization and scarcity of water and energy the study of environmental fluid dynamics becomes increasingly relevant This volume is a valuable resource for students researchers and policymakers working to better understand the fundamentals of environmental motions and how they affect and are influenced by anthropogenic activities See also Handbook of Environmental Fluid Dynamics Two Volume Set and Volume Two Systems Pollution Modeling and Measurements

River Flow 2016 George Constantinescu,Marcelo Garcia,Dan Hanes,2016-06-22 Understanding and being able to predict fluvial processes is one of the biggest challenges for

hydraulics and environmental engineers hydrologists and other scientists interested in preserving and restoring the diverse functions of rivers The interactions among flow turbulence vegetation macroinvertebrates and other organisms as well as the transport and retention of particulate matter have important consequences on the ecological health of rivers Managing rivers in an ecologically friendly way is a major component of sustainable engineering design maintenance and restoration of ecological habitats To address these challenges a major focus of River Flow 2016 was to highlight the latest advances in experimental computational and theoretical approaches that can be used to deepen our understanding and capacity to predict flow and the associated fluid driven ecological processes anthropogenic influences sediment transport and morphodynamic processes River Flow 2016 was organized under the auspices of the Committee for Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Since its first edition in 2002 the River Flow conference series has become the main international event focusing on river hydrodynamics sediment transport river engineering and restoration Some of the highlights of the 8th International Conference on Fluvial Hydraulics were to focus on inter disciplinary research involving among others ecological and biological aspects relevant to river flows and processes and to emphasize broader themes dealing with river sustainability River Flow 2016 contains the contributions presented during the regular sessions covering the main conference themes and the special sessions focusing on specific hot topics of river flow research and will be of interest to academics interested in hydraulics hydrology and environmental engineering

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

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 International

Sprayed Concrete Lined Tunnels Alun Thomas,2008-10-08 Practising engineers on site in the design office or in client organizations will find this book an excellent introduction to the design and construction of sprayed concrete lined SCL tunnels The complex behaviour of the early age behaviour of the sprayed concrete requires careful management This book covers all aspects of SCL tunnelling from the constituents of sprayed concrete to detailed design and management during construction Although there is a close interdependence between all the facets of sprayed concrete few engineers have the right breadth of experience and expertise and this urgently needs to be transferred to the wider engineering community Disseminating essential information for tunnelling engineers *Sprayed Concrete Lined Tunnels* is key reading for all involved in or studying the process

The predevelopment ground-water flow system and hydrologic characteristics of the coastal plain aquifers of South Carolina Walter R. Aucott,1988

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

Rivers - Physical, Fluvial and Environmental Processes Paweł Rowiński,Artur Radecki-Pawlik,2015-07-02 This book describes the domain of research and investigation of physical chemical and biological attributes of flowing water and it deals with a cross disciplinary field of study combining physical geophysical hydraulic technological environmental interests It aims to equip engineers geophysicists managers working in water related

arenas as well as advanced students and researchers with the most up to date information available on the state of knowledge about rivers particularly their physical fluvial and environmental processes Information from various but also interrelated areas available in one volume is the main benefit for potential readers All chapters are prepared by leading experts from the leading research laboratories from all over the world *River, Coastal and Estuarine Morphodynamics. RCEM 2009, Two Volume Set* Carlos Vionnet, Marcelo H. García, E.M. Latrubesse, G.M.E. Perillo, 2018-10-03 Coastal estuarine fluvial and submarine morphodynamics encompass some of the leading processes shaping our planet They stem mainly but not only from the interaction of water in motion and movable sediment boundaries resulting in morphological changes produced by erosion transport and deposition of sediments that generate a variety of landscapes Regional Ground-water Discharge to Large Streams in the Upper Coastal Plain of South Carolina and Parts of North Carolina and Georgia Walter R. Aucott, Robin S. Meadows, Glenn G. Patterson, 1987 **Effect of Urban Runoff on the Quality of Lakes in Eagan, Minnesota** Lan H. Tornes, 1989 *Handbook of Environmental Fluid Dynamics, Two-Volume Set* Harindra Joseph Fernando, 2012-12-11 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field this two volume handbook presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the field along with critical discussions of environmental sustainability related to engineering aspects The first volume provides a comprehensive overview of the fundamentals and the second volume explores the interactions between engineered structures and natural flows **Water-resources Investigations Report** ,1998 **Stratigraphy and Hydrologic Conditions at the Brookhaven National Laboratory and Vicinity, Suffolk County, New York, 1994-97** Michael P. Scorca, William R. Dorsch, Douglas E. Paquette, 1999 **Modeling Atmospheric and Oceanic Flows** Thomas von Larcher, Paul D. Williams, 2014-10-30 Modeling Atmospheric and Oceanic Flows Insights from Laboratory Experiments and Numerical Simulations provides a broad overview of recent progress in using laboratory experiments and numerical simulations to model atmospheric and oceanic fluid motions This volume not only surveys novel research topics in laboratory experimentation but also highlights recent developments in the corresponding computational simulations As computing power grows exponentially and better numerical codes are developed the interplay between numerical simulations and laboratory experiments is gaining paramount importance within the scientific community The lessons learnt from the laboratory model comparisons in this volume will act as a source of inspiration for the next generation of experiments and simulations Volume highlights include Topics pertaining to atmospheric science climate physics physical oceanography marine geology and geophysics Overview of the most advanced experimental and computational research in geophysics Recent developments in numerical simulations of atmospheric and oceanic fluid motion Unique comparative analysis of the experimental and numerical approaches to modeling fluid flow Modeling Atmospheric and Oceanic Flows will

be a valuable resource for graduate students researchers and professionals in the fields of geophysics atmospheric sciences oceanography climate science hydrology and experimental geosciences **River Flow 2014** Anton J. Schleiss, Giovanni de Cesare, Mario J. Franca, Michael Pfister, 2014-08-12 The behaviour of river systems is a result of the complex interaction between flow sediments morphology and habitats Furthermore rivers are often used as a source of water supply and energy production as well as a waterway for transportation The main challenge faced by river engineers today in collaboration with environmental and ecological scientists is to restore the channelized rivers under the constraints of high urbanization and limited space as well as sustainable water use During the seventh International Conference on Fluvial Hydraulics River Flow 2014 at cole Polytechnique F d rale de Lausanne EPFL Switzerland scientists and professionals from all over the world addressed this challenge and exchanged their knowledge regarding fluvial hydraulics and river morphology This book comprises the proceedings of the high quality contributions of the participants which reflect the state of the art in the fields of river hydrodynamics morphodynamics sediment transport river engineering and restoration The conference was organized under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro Environment Engineering and Research IAHR Past River Flow conferences have witnessed a significant increase in participation of our community of river engineers and researchers confirming the need for such a forum

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