



Free Surface Flows

Jean-Michel Hervouet



Free Surface Flows:

Free-Surface Flow Nikolaos D. Katopodes, 2018-08-21 Free Surface Flow Environmental Fluid Mechanics introduces a wide range of environmental fluid flows such as water waves land runoff channel flow and effluent discharge The book provides systematic analysis tools and basic skills for study fluid mechanics in natural and constructed environmental flows As the prediction of changes in free surfaces in rivers lakes estuaries and in the ocean directly affects the design of structures that control surface waters and because planning for the allocation of fresh water resources in a sustainable manner is an essential goal this book provides the necessary background and research Helps users determine the transfer of solute mass through the air water interface Presents tactics on the impact of free shear flow in the environment and how to quantify mixing mechanisms in turbulent jets and wakes Gives users tactics to predict the fate and transport of contaminants in stratified lakes and estuaries *Free-Surface Flow*: Nikolaos D. Katopodes, 2018-08-30 Free Surface Flow Shallow Water

Dynamics presents a novel approach to this phenomenon It bridges the gap between traditional books on open channel flow and analytical fluid mechanics Shallow water theory is established by formal integration of the Navier Stokes equations and boundary resistance is developed by a rigorous construction of turbulent flow models for channel flow In addition the book presents a comprehensive description of shallow water waves by mathematical analysis These methods form the foundation for understanding flood routing sudden water releases dam and levee break sluice gate dynamics and wave current interaction Bridges the gap between traditional books on open channel flow and wave mechanics Presents a comprehensive description of shallow water waves by characteristic and bicharacteristic analysis Presents techniques for wave control and active flood mitigation **Free Surface Flows** Hendrik C. Kuhlmann, Hans-Josef Rath, 2014-05-04 The book covers selected problems in free surface flows The topics range from linear and nonlinear gravity and capillary waves thin film dynamics equilibrium shape stability and dynamics of capillary surfaces to thermal Marangoni effects in several geometries The fluid dynamical problems are supplemented by a review Eulerian based computational methods **Free Surface Flows with**

Viscosity Peder A. Tyvand, 1998 Looking at basic research on viscous free surface flows this volume examines such areas as water waves ship waves ocean waves on a rotating Earth stokes drift wave damping vorticity near a free surface internal waves and viscous thin layer flows **Non-Hydrostatic Free Surface Flows** Oscar Castro-Ortega, 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 *Two-dimensional Free-surface Flows Past a Surface Piercing Object* Jack Asavanant, 1993 *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

Dynamics of Water Surface Flows and Waves Yasunori Watanabe, 2022-11-11 Dynamics of Water Surface Flows and Waves provides theoretical descriptions of the whole life of water surface waves through their birth propagation evolution and finally breaking While initial capillary waves are created via instability at air water interfaces potential wave theories adequately describe interactions of waves with current bathymetry and structure In the final breaking stage potential fluid motions in the waves rapidly evolve into vortical turbulent flows that disturb the surfaces resulting in entrainment of air bubbles and ejection of sea spray in bursting bubbles floating on the surface All theories and analytical methods required to understand the series of wave processes over diverse areas of subjects including turbulence diffusion vortex and capillary dynamics shallow water approach and stability analysis as well as the conventional potential wave theory are comprehensively covered in this book All of the mathematical formulas are consistently developed from theorems and linked with physics which provides theoretical understanding and further interest in wave dynamics This is an ideal graduate level textbook or reference for engineers and researchers in the fields of fluid and wave mechanics coastal and ocean engineering

Modelling Surface and Sub-Surface Flows, 1988-06-01 Modelling Surface and Sub Surface Flows

Hydrodynamics of Free Surface Flows Jean-Michel Hervouet, 2007-06-13 A definitive guide for accurate state of the art modelling of free surface flows Understanding the dynamics of free surface flows is the starting point of many environmental studies impact studies and waterworks design Typical applications once the flows are known are water quality dam impact and safety pollutant control and sediment transport These studies used to be done in the past with scale models but these are now being replaced by numerical simulation performed by software suites called hydro informatic systems The Telemac system is the leading software package worldwide and has been developed by Electricit de France and Jean Michel Hervouet who is the head and main developer of the Telemac project Written by a leading authority on Computational Fluid Dynamics the book aims to provide environmentalists hydrologists and engineers using hydro informatic systems such as Telemac and the finite element method with the knowledge of the basic principles capabilities different hypotheses and limitations In particular this book presents the theory for understanding hydrodynamics through an extensive array of case studies such as tides tsunamis storm surges floods bores dam break flood waves density driven currents hydraulic jumps

making this a principal reference on the topic gives a detailed examination and analysis of the notorious Malpasset dam failure includes a coherent description of finite elements in shallow water delivers a significant treatment of the state of the art flow modelling techniques using Telemac developed by Electricit de France provides the fundamental physics and theory of free surface flows to be utilised by courses on environmental flows Hydrodynamics of Free Surface Flows is essential reading for those involved in computational fluid dynamics and environmental impact assessments as well as hydrologists and bridge coastal and dam engineers Guiding readers from fundamental theory to the more advanced topics in the application of the finite element method and the Telemac System this book is a key reference for a broad audience of students lecturers researchers and consultants right through to the community of users of hydro informatics systems

Free-surface Flows Under Gravity and Surface Tension Effects Due to Pressure Distribution, 2004 We consider steady two dimensional free surface flows due to an applied pressure distribution under the effects of both gravity and surface tension in water of a constant depth The fluid is assumed to be inviscid and incompressible and the flow is irrotational The behavior of nonlinear waves is characterized by three parameters the Froude number F the Bond number τ and the magnitude and sign of the pressure distribution ϵ The nonlinear wave problem was solved numerically by a boundary integral method In addition we studied some aspects of linear and weakly nonlinear theories in the case of small of amplitude wave to establish connections with the nonlinear solutions It was found that when $\tau > 1$ the appropriate model for the weakly nonlinear theory is the fKdV equation whereas the fNLS equation gives better description of the wave form solution in the case when $\tau < 1$

Open-Channel Flow M. Hanif Chaudhry, 2007-11-16 Analysis of open channel flow is essential for the planning design and operation of water resource projects The use of computers and the availability of efficient computational procedures has simplified such analysis and made it possible to handle increasingly complex systems In Open Channel Flow Second Edition author Hanif Chaudhry draws upon years of practical experience and incorporates numerous examples and real life applications to provide the reader with A strong emphasis on the application of efficient solution techniques computational procedures and numerical methods suitable for computer analyses Complete coverage of steady and unsteady flow techniques A new chapter on sediment transport and updated chapters on uniform flow and two dimensional flow techniques New and updated problem sets and exercises a solutions manual for instructors Open Channel Flow Second Edition is written for students in senior level undergraduate and graduate courses on steady and unsteady open channel flow and for civil engineers needing up to date and relevant information on the latest developments and techniques in the field

100 Volumes of 'Notes on Numerical Fluid Mechanics' Ernst Heinrich Hirschel, Egon Krause, 2009-05-19 In a book that will be required reading for engineers physicists and computer scientists the editors have collated a number of articles on fluid mechanics written by some of the world's leading researchers and practitioners in this important subject area

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.

Fluid Flow L.C. Wrobel, C.A. Brebbia, 2016-11-21. No detailed description available for Fluid Flow.

Informatics, Networking and Intelligent Computing Jiaxing 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.

The Finite Element Method for Fluid Dynamics O. C. Zienkiewicz, R. L. Taylor, P. Nithiarasu, 2013-11-21. The Finite Element Method for Fluid Dynamics offers a complete introduction to the application of the finite element method to fluid mechanics. The book begins with a useful summary of all relevant partial differential equations before moving on to discuss convection stabilization procedures, steady and transient state equations, and numerical solution of fluid dynamic equations. The character based split CBS scheme is introduced and discussed in detail, followed by thorough coverage of incompressible and compressible fluid dynamics, flow through porous media, shallow water flow, and the numerical treatment of long and short waves. Updated throughout, this new edition includes new chapters on fluid structure interaction, including discussion of one dimensional and multidimensional problems, biofluid dynamics covering flow throughout the human arterial system. Focusing on the core knowledge, mathematical and analytical tools needed for successful computational fluid dynamics (CFD). The Finite Element Method for Fluid Dynamics is the authoritative introduction of choice for graduate level students, researchers, and professional engineers. A proven keystone reference in the library of any engineer needing to understand and apply the finite element method to fluid mechanics. Founded by an influential pioneer in the field and updated in this seventh edition by leading academics who worked closely with Olgierd C. Zienkiewicz. Features new chapters on fluid structure interaction and biofluid dynamics, including coverage of one dimensional flow in flexible pipes and challenges in modeling systemic arterial circulation.

Computational Hydraulics Ioana Popescu, 2014-08-14. Computational Hydraulics introduces the concept of

modeling and the contribution of numerical methods and numerical analysis to modeling It provides a concise and comprehensive description of the basic hydraulic principles and the problems addressed by these principles in the aquatic environment Flow equations numerical and analytical solutions are included The necessary steps for building and applying numerical methods in hydraulics comprise the core of the book and this is followed by a report of different example applications of computational hydraulics river training effects on flood propagation water quality modelling of lakes and coastal applications The theory and exercises included in the book promote learning of concepts within academic environments Sample codes are made available online for purchasers of the book Computational Hydraulics is intended for under graduate and graduate students researchers members of governmental and non governmental agencies and professionals involved in management of the water related problems Author Ioana Popescu Hydroinformatics group UNESCO IHE Institute for Water Education Delft The Netherlands

Frontiers in Computational Fluid-Structure Interaction and Flow Simulation Tayfun E. Tezduyar, 2023-11-01 Computational fluid structure interaction FSI and flow simulation are challenging research areas that bring solution and analysis to many classes of problems in science engineering and technology Young investigators under the age of 40 are conducting much of the frontier research in these areas some of which is highlighted in this volume The first author of each chapter took the lead role in carrying out the research presented Some of the topics explored include Direct flow simulation of objects represented by point clouds Computational investigation of leaflet flutter in thinner biological heart valve tissues High fidelity simulation of hydrokinetic energy applications High resolution isogeometric analysis of car and tire aerodynamics Computational analysis of air blast structure interaction Heart valve computational flow analysis with boundary layer and leaflet contact representation Computational thermalmulti phase flow for metal additive manufacturing This volume will be a valuable resource for early career researchers and students not only those interested in computational FSI and flow simulation but also other fields of engineering and science including fluid mechanics solid mechanics and computational mathematics as it will provide them with inspiration and guidance for conducting their own successful research It will also be of interest to senior researchers looking to learn more about successful research led by those under 40 and possibly offer collaboration to these researchers

Long-wave Runup Models Philip L. F. Liu, 1996 Since September 1992 there has been an unprecedented number of major tsunami events Chronologically the ten sites were Nicaragua in September 1992 Flores Indonesia in December 1992 Okushiri Japan in July 1993 East Java Indonesia in June 1994 Shikotan Russia in October 1994 Mindoro Philippines in November 1994 Skagway Alaska in November 1994 East Timor Indonesia in May 1995 Irian Jaya Indonesia in February 1996 Chimbote Peru in February 1996 These tsunamis caused substantial damage and many casualties Now is the time to review this extraordinary phenomenon so as to prepare for forthcoming tsunami events The purpose of this book is to review and update our knowledge of long wave runups and our recent experience in field surveys of tsunami runups Comparisons of

numerical analytical and physical prediction models are made using existing laboratory and field data Also presented are state of the art tsunami prediction models and detailed discussions on tsunami runup phenomena

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