

WAVES IN FLUIDS

James Lighthill

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Yasunori Watanabe



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Waves in Fluids Sir M. J. Lighthill, James Lighthill, 2001-11-15 A comprehensive textbook in which the author describes the science of waves in liquids and gases Drawing on a subject of enormous extent and variety he provides his readers with a thorough analysis of the most important and representative types of waves including sound waves shock waves water waves of all kinds and the so called internal waves inside atmospheres and oceans due to intensity stratification Emphasis throughout is on the most generally useful fundamental ideas of wave science including the principles of how waves interact with flows This standard work on one of the great subdivisions of the dynamics of fluids is lucidly written and will be invaluable to engineers physicists geophysicists applied mathematicians or any research worker concerned with wave motions or fluid flows It is especially suitable as a textbook for courses at the final year undergraduate or graduate level

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Fluid Dynamics via Examples and Solutions Sergey Nazarenko, 2014-12-01 Fluid Dynamics via Examples and Solutions provides a substantial set of example problems and detailed model solutions covering various phenomena and effects in fluids The book is ideal as a supplement or exam review for undergraduate and graduate courses in fluid dynamics continuum mechanics turbulence ocean and atmospheric sciences and relate

Hydrodynamics Harry Schulz, Raquel Lobosco, André Simoes, 2012-01-05 The knowledge of the characteristics of the fluids and their ability to transport substances and physical properties is relevant for us However the quantification of the movements of fluids is a complex task and when considering natural flows occurring in large scales rivers lakes oceans this complexity is evidenced This book presents conclusions about different aspects of flows in natural water bodies such as the evolution of plumes the transport of sediments air water mixtures among others It contains thirteen chapters organized in four sections Tidal and Wave Dynamics Rivers Lakes and Reservoirs Tidal and Wave Dynamics Seas and Oceans Tidal and Wave Dynamics Estuaries and Bays and Multiphase Phenomena Air Water Flows and Sediments The chapters present conceptual arguments experimental and numerical results showing practical applications of the methods and tools of Hydrodynamics

Wave Interactions and Fluid Flows Alex D. D. Craik, 1988-07-07 Wave Interactions and Fluid Flows is a coherent up to date and comprehensive account of theory and experiment on wave

interaction phenomena both in fluids at rest and in shear flows On the one hand this includes water waves internal waves their evolution and interaction and associated wave driven mean flows on the other phenomena of nonlinear hydrodynamic stability especially those leading to the onset of turbulence Close similarities and crucial differences exist between these two classes of phenomena and their treatment in this single study provides a particularly valuable bridge between more specialised but related disciplines As a result this unique book will appeal to researchers and graduate students of fluid mechanics in its widest sense including the study of wave interaction phenomena in such diverse fields as meteorology aeronautical and hydraulic engineering optics solar physics and population dynamics Dr Craik is an active researcher of long standing at the University of St Andrews and has wide experience in the field of fluid mechanics

Large Eddy Simulation for Compressible Flows Eric Garnier, Nikolaus Adams, P. Sagaut, 2009-08-11 This book addresses both the fundamentals and the practical industrial applications of Large Eddy Simulation LES in order to bridge the gap between LES research and the growing need to use it in engineering modeling

Waves in Fluids, 1980

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

Laboratory experiments and numerical simulations of inertial waves in a rotating spherical shell Sandy Dahley, 2016-02-01 Geo und astrophysikalisch motivierte Strömungen wie sie in der Atmosphäre in den Ozeanen oder im Inneren von Planeten auftreten lassen sich in rotierenden Experimenten mit homogenen Fluiden untersuchen In dieser Arbeit werden Untersuchungen zu Trichterswellen und Wellenattraktoren in einer Kugelschale und einem rechteckigen Tank gezeigt Viele geophysikalische Anwendungen mit planetaren Skalen motivieren den Einsatz von sphärischen Geometrien Mit dem Kugelspalterperiment bestehend aus zwei rotierenden konzentrisch angeordneten Kugelschalen werden die Anregung und Ausbildung verschiedener Wellenphänomene sowie der internen Grenzschichten untersucht Durch eine Modulation der Rotationsgeschwindigkeit an der Innenkugel in Form einer Sinuskurve werden Wellen erzeugt die an den gekrümmten Rändern des Modells mehrfach reflektiert werden und somit bestimmten Bahnen folgen Für

den Vergleich mit numerischen Untersuchungen werden unterschiedliche Visualisierungen und Messtechniken spezifiziert Die numerische Simulation erlaubt dabei die Untersuchung in Parameterbereichen mit Instabilitäten die für die experimentelle Untersuchung schwer zugänglich sind

New Results in Numerical and Experimental Fluid Mechanics VIII Andreas Dillmann, Gerd Heller, Hans-Peter Kreplin, Wolfgang Nitsche, Inken Peltzer, 2012-12-27 This volume contains the contributions to the 17th Symposium of STAB German Aerospace Aerodynamics Association STAB includes German scientists and engineers from universities research establishments and industry doing research and project work in numerical and experimental fluid mechanics and aerodynamics mainly for aerospace but also for other applications Many of the contributions collected in this book present results from national and European Community sponsored projects This volume gives a broad overview of the ongoing work in this field in Germany and spans a wide range of topics airplane aerodynamics multidisciplinary optimization and new configurations hypersonic flows and aerothermodynamics flow control drag reduction and laminar flow control rotorcraft aerodynamics aeroelasticity and structural dynamics numerical simulation experimental simulation and test techniques aeroacoustics as well as the new fields of biomedical flows convective flows aerodynamics and acoustics of high speed trains

Waves in fluids Michael James Lighthill, **Incredible Shrinking Bee, The: Insects As Models For Microelectromechanical Devices** James V Lawry, 2006-02-22 Because vertebrate circulations do not work when shrunk to insect sizes insects may help us design our smallest machines Within small bodies bees separate diffusing substances in an open cavity assisted by locomotion and the beat of the heart The open arthropod circulation however is most efficient when shrunk until its large three dimensional volume of blood turns into a two dimensional film of fluid covering only the internal surfaces This transformation increases the chances to near certainty that molecules can diffuse from one point to another without getting lost The Incredible Shrinking Bee expresses mathematics in words so that most readers can compare today's microelectromechanical MEMS devices with a honeybee's circulation introducing ideas of biominiaturization to workers interested in developing compact energy and chemical systems When it comes to shrinking systems bees have the edge on human ingenuity A farrago of ideas and disciplines The Incredible Shrinking Bee provides a springboard for discussion and research for computer scientists entomologists systems biologists physiologists mathematicians engineers and anyone wanting to learn how bees move things around in their bodies to do what we are trying to do smaller and better

Shocks, Singularities and Oscillations in Nonlinear Optics and Fluid Mechanics Ferruccio Colombini, Daniele Del Santo, David Lannes, 2017-04-25 The book collects the most relevant results from the INdAM Workshop Shocks Singularities and Oscillations in Nonlinear Optics and Fluid Mechanics held in Rome September 14-18 2015 The contributions discuss recent major advances in the study of nonlinear hyperbolic systems addressing general theoretical issues such as symmetrizability singularities low regularity or dispersive perturbations It also investigates several physical phenomena where such systems are relevant such as nonlinear optics shock theory stability relaxation and fluid

mechanics boundary layers water waves Euler equations geophysical flows etc It is a valuable resource for researchers in these fields

Simulation of the Sea Surface for Remote Sensing Alexander Zapevalov, Konstantin Pokazeev, Tatiana Chaplina, 2020-10-09 This book considers the formation of the signal reflected from the sea surface when sensing in the radio and optical range Currently remote sensing from space is the main source of information about the processes taking place in the atmosphere and ocean The correct interpretation of remote sensing data requires detailed information about the rough surface that forms the reflected signal The first three chapters describe the statistical and spatial temporal characteristics of the sea surface focusing on the effects associated with the nonlinearity of sea surface waves The analysis makes extensive use of data obtained by the authors on a stationary oceanographic platform located on the Black sea In the next seven chapters the authors analyze how the nonlinearity of waves affects the formation of a signal reflected from the sea surface This book is geared for advanced level research in the general subject area of remote sensing and modeling as they apply to the coastal marine environment It is of value to scientists and engineers involved in the development of methods and instruments of remote sensing analysis and interpretation of data It is useful for students who have decided to devote themselves to the study of the oceans

Numerical Methods for Hyperbolic Equations Elena Vázquez-Cendón, Arturo Hidalgo, Pilar Garcia Navarro, Luis Cea, 2012-11-05 Numerical Methods for Hyperbolic Equations is a collection of 49 articles presented at the International Conference on Numerical Methods for Hyperbolic Equations Theory and Applications Santiago de Compostela Spain 4-8 July 2011 The conference was organized to honour Professor Eleuterio Toro in the month of his 65th birthday The topics cover

Modelling of Mechanical Systems: Fluid-Structure Interaction Francois Axisa, Jose Antunes, 2006-12-07 Written by an eminent authority in the field Modelling of Mechanical Systems Fluid Structure Interaction is the third in a series of four self contained volumes suitable for practitioners academics and students alike in engineering physical sciences and applied mechanics The series skilfully weaves a theoretical and pragmatic approach to modelling mechanical systems and to analysing the responses of these systems The study of fluid structure interactions in this third volume covers the coupled dynamics of solids and fluids restricted to the case of oscillatory motions about a state of static equilibrium Physical and mathematical aspects of modelling these mechanisms are described in depth and illustrated by numerous worked out exercises Written by a world authority in the field in a clear concise and accessible style Comprehensive coverage of mathematical techniques used to perform computer based analytical studies and numerical simulations A key reference for mechanical engineers researchers and graduate students

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Nonlinear Waves and Pattern Dynamics Nizar Abcha, Efim Pelinovsky, Innocent Mutabazi, 2018-04-20 This book addresses the fascinating phenomena associated with nonlinear waves and spatio temporal patterns These appear almost everywhere in nature from sand bed forms to brain patterns and yet their understanding still presents fundamental scientific

challenges The reader will learn here in particular about the current state of the art and new results in Nonlinear water waves resonance solitons focusing Bose Einstein condensation as well as and their relevance for the sea environment sea wind interaction sand bed forms fiber clustering Pattern formation in non equilibrium media soap films chimera patterns in oscillating media viscoelastic Couette Taylor flow flow in the wake behind a heated cylinder other pattern formation The editors and authors dedicate this book to the memory of Alexander Ezersky Professor of Fluid Mechanics at the University of Caen Normandie France from September 2007 to July 2016 Before 2007 he had served as a Senior Scientist at the Institute of Applied Physics of the Russian Academy of Sciences in Nizhny Novgorod Russia The chapters have been written by leading scientists in Nonlinear Physics and the topics chosen so as to cover all the fields to which Prof Ezersky himself contributed by means of experimental theoretical and numerical approaches The volume will appeal to advanced students and researchers studying nonlinear waves and pattern dynamics as well as other scientists interested in their applications in various natural media

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Electron Cyclotron Heating of Plasmas Gareth Guest,2009-11-23 Authored by a highly regarded plasma scientist this book fills the gap for a topical reference and source with a professional audience in mind While the use of this critical method at the international fusion reactor ITER is covered in detail the monograph also includes planetary magnetospheres and plasma sources for commercial applications With exercises and solutions for additional use as course reading

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