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Wave Motion



J. BILLINGHAM AND A.C. KING

Wave Motion Cambridge Texts In Applied Mathematics

Jaime Angulo Pava



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Wave Motion J. Billingham,A. C. King,2001-01-22 Waves are a ubiquitous and important feature of the physical world and throughout history it has been a major challenge to understand them They can propagate on the surfaces of solids and of fluids chemical waves control the beating of your heart traffic jams move in waves down lanes crowded with vehicles This introduction to the mathematics of wave phenomena is aimed at advanced undergraduate courses on waves for mathematicians physicists or engineers Some more advanced material on both linear and nonlinear waves is also included thus making the book suitable for beginning graduate courses The authors assume some familiarity with partial differential equations integral transforms and asymptotic expansions as well as an acquaintance with fluid mechanics elasticity and electromagnetism The context and physics that underlie the mathematics is clearly explained at the beginning of each chapter Worked examples and exercises are supplied throughout with solutions available to teachers **Wave Motion** J.

Billingham,A. C. King,2001-01-22 Waves are a ubiquitous and important feature of the physical world and throughout history it has been a major challenge to understand them This introduction to the mathematics of wave phenomena is aimed at advanced undergraduate courses for mathematicians physicists or engineers Some more advanced material on both linear and nonlinear waves is also included making the book suitable for beginning graduate courses The authors assume some familiarity with partial differential equations integral transforms and asymptotic expansions as well as with fluid mechanics elasticity and electromagnetism The context and physics that underlie the mathematics is clearly explained at the beginning of each chapter Worked examples and exercises are supplied throughout with solutions available to teachers *Partial*

Differential Equations in Action Sandro Salsa,Gianmaria Verzini,2015-05-30 This textbook presents problems and exercises at various levels of difficulty in the following areas Classical Methods in PDEs diffusion waves transport potential equations Basic Functional Analysis and Distribution Theory Variational Formulation of Elliptic Problems and Weak Formulation for Parabolic Problems and for the Wave Equation Thanks to the broad variety of exercises with complete solutions it can be used in all basic and advanced PDE courses **Nonlinear Waves In Bounded Media: The Mathematics Of Resonance**

Brian R Seymour,Michael P Mortell,2017-01-18 This unique book aims to treat a class of nonlinear waves that are reflected from the boundaries of media of finite extent It involves both standing unforced waves and resonant oscillations due to external periodic forcing The waves are both hyperbolic and dispersive To achieve this aim the book develops the necessary understanding of linear waves and the mathematical techniques of nonlinear waves before dealing with nonlinear waves in bounded media The examples used come mainly from gas dynamics water waves and viscoelastic waves **Linear Elastic**

Waves John G. Harris,2001-08-06 An advanced level textbook on wave propagation and scattering directed at applied mathematicians seismologists and engineers *Falling Liquid Films* S. Kalliadasis,C. Ruyer-Quil,B. Scheid,M. G.

Velarde,2011-09-24 Falling Liquid Films gives a detailed review of state of the art theoretical analytical and numerical

methodologies for the analysis of dissipative wave dynamics and pattern formation on the surface of a film falling down a planar inclined substrate This prototype is an open flow hydrodynamic instability that represents an excellent paradigm for the study of complexity in active nonlinear media with energy supply dissipation and dispersion It will also be of use for a more general understanding of specific events characterizing the transition to spatio temporal chaos and weak dissipative turbulence Particular emphasis is given to low dimensional approximations for such flows through a hierarchy of modeling approaches including equations of the boundary layer type averaged formulations based on weighted residuals approaches and long wave expansions Whenever possible the link between theory and experiment is illustrated and as a further bridge between the two the development of order of magnitude estimates and scaling arguments is used to facilitate the understanding of basic underlying physics This monograph will appeal to advanced graduate students in applied mathematics science or engineering undertaking research on interfacial fluid mechanics or studying fluid mechanics as part of their program It will also be of use to researchers working on both applied fundamental theoretical and experimental aspects of thin film flows as well as engineers and technologists dealing with processes involving isothermal or heated films This monograph is largely self contained and no background on interfacial fluid mechanics is assumed

Modelling of Complex Signals in Nerves Jüri Engelbrecht, Kert Tamm, Tanel Peets, 2021-05-11 This book describes fundamental physical principles together with their mathematical formulations for modelling the propagation of signals in nerve fibres Above all it focuses on the complex electro mechano thermal process that produces an ensemble of waves composed of several components besides the action potential These components include mechanical waves in the biomembrane and axoplasm together with the temperature change Pursuing a step by step approach the content moves from physics and mathematics to describing the physiological effects and finally to modelling the coupling effects The assumptions and hypotheses used for modelling as well as selected helpful concepts from continuum mechanics are systematically explained and the modelling is illustrated using the outcomes of numerical simulation The book is chiefly intended for researchers and graduate students providing them with a detailed description of how to model the complex physiological processes in nerve fibres

Nonlinear Dispersive Equations Jaime Angulo Pava, 2009 This book provides a self contained presentation of classical and new methods for studying wave phenomena that are related to the existence and stability of solitary and periodic travelling wave solutions for nonlinear dispersive evolution equations Simplicity concrete examples and applications are emphasized throughout in order to make the material easily accessible The list of classical nonlinear dispersive equations studied include Korteweg de Vries Benjamin Ono and Schrodinger equations Many special Jacobian elliptic functions play a role in these examples The author brings the reader to the forefront of knowledge about some aspects of the theory and motivates future developments in this fascinating and rapidly growing field The book can be used as an instructive study guide as well as a reference by students and mature scientists interested in nonlinear wave phenomena

Nonlinear

Dispersive Equations Christian Klein, Jean-Claude Saut, 2022-02-23 Nonlinear Dispersive Equations are partial differential equations that naturally arise in physical settings where dispersion dominates dissipation notably hydrodynamics nonlinear optics plasma physics and Bose Einstein condensates The topic has traditionally been approached in different ways from the perspective of modeling of physical phenomena to that of the theory of partial differential equations or as part of the theory of integrable systems This monograph offers a thorough introduction to the topic uniting the modeling PDE and integrable systems approaches for the first time in book form The presentation focuses on three universal families of physically relevant equations endowed with a completely integrable member the Benjamin-Ono Davey-Stewartson and Kadomtsev-Petviashvili equations These asymptotic models are rigorously derived and qualitative properties such as soliton resolution are studied in detail in both integrable and non-integrable models Numerical simulations are presented throughout to illustrate interesting phenomena By presenting and comparing results from different fields the book aims to stimulate scientific interactions and attract new students and researchers to the topic To facilitate this the chapters can be read largely independently of each other and the prerequisites have been limited to introductory courses in PDE theory

Building Information Modeling Nawari O. Nawari, Michael Kuenstle, 2015-05-01 BIM for Structural Engineering and Architecture Building Information Modeling Framework for Structural Design outlines one of the most promising new developments in architecture engineering and construction AEC Building information modeling BIM is an information management and analysis technology that is changing the role of computation in the architectural and engineering industries The innovative process constructs a database assembling all of the objects needed to build a specific structure Instead of using a computer to produce a series of drawings that together describe the building BIM creates a single illustration representing the building as a whole This book highlights the BIM technology and explains how it is redefining the structural analysis and design of building structures BIM as a Framework Enabler This book introduces a new framework the structure and architecture synergy framework SAS framework that helps develop and enhance the understanding of the fundamental principles of architectural analysis using BIM tools Based upon three main components the structural melody structural poetry and structural analysis along with the BIM tools as the frame enabler this new framework allows users to explore structural design as an art while also factoring in the principles of engineering The framework stresses the influence structure can play in form generation and in defining spatial order and composition By highlighting the interplay between architecture and structure the book emphasizes the conceptual behaviors of structural systems and their aesthetic implications and enables readers to thoroughly understand the art and science of whole structural system concepts Presents the use of BIM technology as part of a design process or framework that can lead to a more comprehensive intelligent and integrated building design Places special emphasis on the application of BIM technology for exploring the intimate relationship between structural engineering and architectural design Includes a discussion of current and emerging trends in structural engineering practice and the role of the structural

engineer in building design using new BIM technologies Building Information Modeling Framework for Structural Design provides a thorough understanding of architectural structures and introduces a new framework that revolutionizes the way building structures are designed and constructed

A Modern Introduction to the Mathematical Theory of Water Waves Robin Stanley Johnson,1997-10-28 This text considers classical and modern problems in linear and non linear water wave theory

Geomathematics Volker Michel,2022-04-28 A comprehensive summary of the fundamental mathematical principles behind key topics in geophysics and geodesy Each section begins with a problem in gravimetry geomagnetics or seismology and analyses its mathematical features With each chapter ending with a series of review questions this is a valuable reference for students and researchers

Practical Applied Mathematics Sam Howison,2005-03-24 Drawing from a wide variety of mathematical subjects this book aims to show how mathematics is realised in practice in the everyday world Dozens of applications are used to show that applied mathematics is much more than a series of academic calculations Mathematical topics covered include distributions ordinary and partial differential equations and asymptotic methods as well as basics of modelling The range of applications is similarly varied from the modelling of hair to piano tuning egg incubation and traffic flow The style is informal but not superficial In addition the text is supplemented by a large number of exercises and sideline discussions assisting the reader s grasp of the material Used either in the classroom by upper undergraduate students or as extra reading for any applied mathematician this book illustrates how the reader s knowledge can be used to describe the world around them

Surveys in Applied Mathematics Mark I. Freidlin,Sergey Gredeskul,John K. Hunter,Andrew Marchenko,Leonid Pastur,2012-12-06 Volume 2 offers three in depth articles covering significant areas in applied mathematics research Chapters feature numerous illustrations extensive background material and technical details and abundant examples The authors analyze nonlinear front propagation for a large class of semilinear partial differential equations using probabilistic methods examine wave localization phenomena in one dimensional random media and offer an extensive introduction to certain model equations for nonlinear wave phenomena

Nonlinear Elastic Waves in Materials Jeremiah J. Rushchitsky,2014-04-23 The main goal of the book is a coherent treatment of the theory of propagation in materials of nonlinearly elastic waves of displacements which corresponds to one modern line of development of the nonlinear theory of elastic waves The book is divided on five basic parts the necessary information on waves and materials the necessary information on nonlinear theory of elasticity and elastic materials analysis of one dimensional nonlinear elastic waves of displacement longitudinal vertically and horizontally polarized transverse plane nonlinear elastic waves of displacement analysis of one dimensional nonlinear elastic waves of displacement cylindrical and torsional nonlinear elastic waves of displacement analysis of two dimensional nonlinear elastic waves of displacement Rayleigh and Love nonlinear elastic surface waves The book is addressed first of all to people working in solid mechanics from the students at an advanced undergraduate and graduate level to the scientists professionally interesting in waves But mechanics is

understood in the broad sense when it includes mechanical and other engineering material science applied mathematics and physics and so forth The genesis of this book can be found in author s years of research and teaching while a head of department at SP Timoshenko Institute of Mechanics National Academy of Sciences of Ukraine a member of Center for Micro and Nanomechanics at Engineering School of University of Aberdeen Scotland and a professor at Physical Mathematical Faculty of National Technical University of Ukraine KPI The book comprises 11 chapters Each chapter is complemented by exercises which can be used for the next development of the theory of nonlinear waves

Nonlinear Water Waves David Henry,Konstantinos Kalimeris,Emilian I. Păraŭ,Jean-Marc Vanden-Broeck,Erik Wahlén,2019-11-27 The motion of water is governed by a set of mathematical equations which are extremely complicated and intractable This is not surprising when one considers the highly diverse and intricate physical phenomena which may be exhibited by a given body of water Recent mathematical advances have enabled researchers to make major progress in this field reflected in the topics featured in this volume Cutting edge techniques and tools from mathematical analysis have generated strong rigorous results concerning the qualitative and quantitative physical properties of solutions of the governing equations Furthermore accurate numerical computations of fully nonlinear steady and unsteady water waves in two and three dimensions have contributed to the discovery of new types of waves Model equations have been derived in the long wave and modulational regime using Hamiltonian formulations and solved numerically This book brings together interdisciplinary researchers working in the field of nonlinear water waves whose contributions range from survey articles to new research results which address a variety of aspects in nonlinear water waves It is motivated by a workshop which was organised at the Erwin Schr dinger International Institute for Mathematics and Physics in Vienna November 27 December 7 2017 The key aim of the workshop was to describe and foster new approaches to research in this field This is reflected in the contents of this book which is aimed to stimulate both experienced researchers and students alike

Waves and Stability in Continuous Media - Proceedings of the 15th Conference on Wascom 2009 Antonio Maria Greco,Salvatore Rionero,Tommaso Ruggeri,2010 This book contains recent contributions in the field of waves propagation and stability in continuous media The volume is the sixth in a series published by World Scientific since 1999

Waves and Compressible Flow Hilary Ockendon,John R. Ockendon,2016-01-21 Now in its second edition this book continues to give readers a broad mathematical basis for modelling and understanding the wide range of wave phenomena encountered in modern applications New and expanded material includes topics such as elastoplastic waves and waves in plasmas as well as new exercises Comprehensive collections of models are used to illustrate the underpinning mathematical methodologies which include the basic ideas of the relevant partial differential equations characteristics ray theory asymptotic analysis dispersion shock waves and weak solutions Although the main focus is on compressible fluid flow the authors show how intimately gasdynamic waves are related to wave phenomena in many other areas of physical science Special emphasis is placed on the development of physical intuition to supplement and reinforce

analytical thinking Each chapter includes a complete set of carefully prepared exercises making this a suitable textbook for students in applied mathematics engineering and other physical sciences

Reviews of the first edition This book is an introduction to the theory of linear and nonlinear waves in fluids including the theory of shock waves is extraordinarily accurate and free of misprints I enjoyed reading this book most attractive and enticing appearance and I m certain that many readers who browse through it will wish to buy a copy The exercises are excellent A beginner who worked through these exercises would not only enjoy himself or herself but would rapidly acquire mastery of techniques used in JFM and many other journals

C J Chapman *Journal of Fluid Mechanics* Vol 521 2004 The book targets a readership of final year undergraduates and first year graduates in applied mathematics In the reviewer s opinion it is very well designed to catch the student s interest while every chapter displays essential features in some important area of fluid dynamics Additionally students may practice by solving 91 exercises This volume is mainly devoted to inviscid flows The book is very well written

Denis Serre *Mathematical Reviews* 2004 *Nonlinear Wave Equations* Christopher W. Curtis, Anton Dzhamay, Willy A. Hereman, Barbara Prinari, 2015-03-26 This volume contains the proceedings of the AMS Special Session on Nonlinear Waves and Integrable Systems held on April 13 14 2013 at the University of Colorado Boulder Colorado The field of nonlinear waves is an exciting area of modern mathematical research that also plays a major role in many application areas from physics and fluids The articles in this volume present a diverse cross section of topics from this field including work on the Inverse Scattering Transform scattering theory inverse problems numerical methods for dispersive wave equations and analytic and computational methods for free boundary problems Significant attention to applications is also given throughout the articles with an extensive presentation on new results in the free surface problem in fluids This volume will be useful to students and researchers interested in learning current techniques in studying nonlinear dispersive systems from both the integrable systems and computational points of view **Bulletin of the Belgian Mathematical Society, Simon Stevin** ,2003

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