

**CAMBRIDGE TEXTS
IN APPLIED
MATHEMATICS**

Wave Motion



J. BILLINGHAM AND A.C. KING

Wave Motion Cambridge Texts In Applied Mathematics

J. Billingham, A. C. King



Wave Motion Cambridge Texts In Applied Mathematics:

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.

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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 *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

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Wave Motion Cambridge Texts In Applied Mathematics**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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