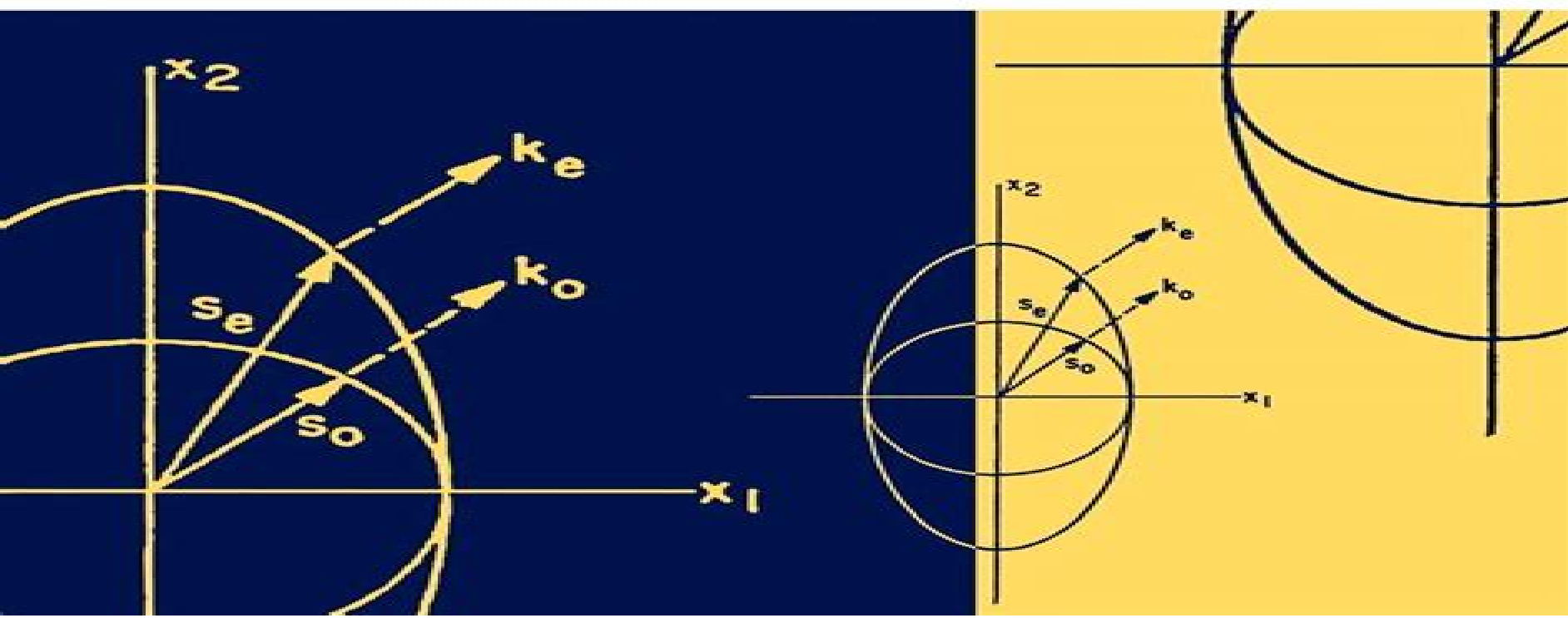


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Linear and Nonlinear Waves

G. B. Whitham



Linear And Nonlinear Waves

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Linear And Nonlinear Waves:

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Xian Xing Bo Gerald Beresford Whitham, 1974 **Linear And Nonlinear Wave Propagation** Spencer P Kuo, 2021-04-16 Waves are essential phenomena in most scientific and engineering disciplines such as electromagnetism and optics and different mechanics including fluid solid structural quantum etc They appear in linear and nonlinear systems Some can be observed directly and others are not The features of the waves are usually described by solutions to either linear or nonlinear partial differential equations which are fundamental to the students and researchers Generic equations describing wave and pulse propagation in linear and nonlinear systems are introduced and analyzed as initial boundary value problems These systems cover the general properties of non dispersive and dispersive uniform and non uniform with without dissipations Methods of analyses are introduced and illustrated with analytical solutions Wave wave and wave particle interactions ascribed to the nonlinearity of media such as plasma are discussed in the final chapter This interdisciplinary textbook is essential reading for anyone in above mentioned disciplines It was prepared to provide students with an understanding of waves and methods of solving wave propagation problems The presentation is self contained and should be read without difficulty by those who have adequate preparation in classic mechanics The selection of topics and the focus given to each provide essential materials for a lecturer to cover the bases in a linear nonlinear wave course **Linear and Nonlinear**

Waves in Microstructured Solids Igor V. Andrianov, Jan Awrejcewicz, Vladyslav Danishevskyy, 2021-04-22 This book uses asymptotic methods to obtain simple approximate analytic solutions to various problems within mechanics notably wave processes in heterogeneous materials Presenting original solutions to common issues within mechanics this book builds upon years of research to demonstrate the benefits of implementing asymptotic techniques within mechanical engineering and material science Focusing on linear and nonlinear wave phenomena in complex micro structured solids the book determines their global characteristics through analysis of their internal structure using homogenization and asymptotic procedures in line with the latest thinking within the field The book's cutting edge methodology can be applied to optimal design non destructive control and in deep seismic sounding providing a valuable alternative to widely used numerical methods Using case studies the book covers topics such as elastic waves in nonhomogeneous materials regular and chaotic dynamics based on continualisation and discretization and vibration localization in 1D Linear and Nonlinear lattices The book will be of interest to students research engineers and professionals specialising in mathematics and physics as well as mechanical and

civil engineering Oscillations and Waves M.I Rabinovich,D.I. Trubetskov,1989-11-30 Et mai si j avait su comment en revenir One service mathematics has rendered the je n y semis point aUe human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense Eric T Bell able to do something with it O Heaviside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d etre of this series *Nonlinear Waves: An Introduction* Petar Radoev Popivanov,Angela Slavova,2010-09-23 This book deals with equations of mathematical physics as the different modifications of the KdV equation the Camassa Holm type equations several modifications of Burger s equation the Hunter Saxton equation and others The equations originate from physics but are proposed here for their investigation via purely mathematical methods in the frames of university courses More precisely the authors propose classification theorems for the traveling wave solutions for a sufficiently large class of third order nonlinear PDE when the corresponding profiles develop different kind of singularities cusps peaks The orbital stability of the periodic solutions of traveling type for mKdV equations are also studied Of great interest too is the interaction of peakon type solutions of the Camassa Holm equation and the solvability of the classical and generalized Cauchy problem for the Hunter Saxton equation The Riemann problem for special systems of conservation laws and the corresponding d shocks are also considered At the end of the book the authors study the interaction of two piecewise smooth waves in the case of two space variables and they verify the appearance of logarithmic singularities As it concerns numerical methods in the case of periodic waves the authors apply Cellular Neural Network CNN approach Nonlinear Wave Equations Walter A. Strauss,1990-01-12 The theory of nonlinear wave equations in the absence of shocks began in the 1960s Despite a great deal of recent activity in this area some major issues remain unsolved such as sharp conditions for the global existence of solutions with arbitrary initial data and the global phase portrait in the presence of periodic solutions and traveling waves This book based on lectures presented by the author at George Mason University in January 1989 seeks to present the sharpest results to date in this area The author surveys the fundamental qualitative properties of the solutions of nonlinear wave equations in the absence of boundaries and shocks These properties include the existence and regularity of global solutions strong and weak singularities asymptotic properties scattering theory and stability of solitary waves Wave equations of hyperbolic Schrodinger and KdV type are discussed as well as the Yang Mills and the Vlasov Maxwell equations The book offers readers a broad overview of the field and an understanding of the most recent developments as well as the status of some important unsolved problems Intended for mathematicians and physicists interested in nonlinear waves this

book would be suitable as the basis for an advanced graduate level course

Linear and Nonlinear Waves in Dusty Plasmas Sankui Gou, 2003

Nonlinear Waves Lokenath Debnath, 1983-12-30 The outcome of a conference held in East Carolina University in June 1982 this book provides an account of developments in the theory and application of nonlinear waves in both fluids and plasmas Twenty two contributors from eight countries here cover all the main fields of research including nonlinear water waves KdV equations solitons and inverse scattering transforms stability of solitary waves resonant wave interactions nonlinear evolution equations nonlinear wave phenomena in plasmas recurrence phenomena in nonlinear wave systems and the structure and dynamics of envelope solitons in plasmas

New Approaches to Nonlinear Waves Elena Tobisch, 2015-08-19 The book details a few of the novel methods developed in the last few years for studying various aspects of nonlinear wave systems The introductory chapter provides a general overview thematically linking the objects described in the book Two chapters are devoted to wave systems possessing resonances with linear frequencies Chapter 2 and with nonlinear frequencies Chapter 3 In the next two chapters modulation instability in the KdV type of equations is studied using rigorous mathematical methods Chapter 4 and its possible connection to freak waves is investigated Chapter 5 The book goes on to demonstrate how the choice of the Hamiltonian Chapter 6 or the Lagrangian Chapter 7 framework allows us to gain a deeper insight into the properties of a specific wave system The final chapter discusses problems encountered when attempting to verify the theoretical predictions using numerical or laboratory experiments All the chapters are illustrated by ample constructive examples demonstrating the applicability of these novel methods and approaches to a wide class of evolutionary dispersive PDEs e.g. equations from Benjamin-Oro-Boussinesq-Hasegawa-Mima-KdV type Klein-Gordon-NLS type Serre-Shamel-Whitham and Zakharov This makes the book interesting for professionals in the fields of nonlinear physics applied mathematics and fluid mechanics as well as students who are studying these subjects The book can also be used as a basis for a one semester lecture course in applied mathematics or mathematical physics

Quasilinear and Nonlinear Wave-Particle Interactions in Magnetospheric Plasmas Oliver Allanson, Xiao-Jia Zhang, Yoshiharu Omura, 2023-10-27

Physics of Nonlinear Waves Mitsuhiro Tanaka, 2019-12-18 This is an introductory book about nonlinear waves It focuses on two properties that various different wave phenomena have in common the nonlinearity and dispersion and explains them in a style that is easy to understand for first time students Both of these properties have important effects on wave phenomena Nonlinearity for example makes the wave lean forward and leads to wave breaking or enables waves with different wavenumber and frequency to interact with each other and exchange their energies Dispersion for example sorts irregular waves containing various wavelengths into gentler wavetrains with almost uniform wavelengths as they propagate or cause a difference between the propagation speeds of the wave waveform and the wave energy Many phenomena are introduced and explained using water waves as an example but this is just a tool to make it easier to draw physical images Most of the phenomena introduced in this book are common to all nonlinear and

dispersive waves This book focuses on understanding the physical aspects of wave phenomena and requires very little mathematical knowledge The necessary minimum knowledges about Fourier analysis perturbation method dimensional analysis the governing equations of water waves etc are provided in the text and appendices so even second or third year undergraduate students will be able to fully understand the contents of the book and enjoy the fun of nonlinear wave phenomena without relying on other books

Nonlinear Waves in Solid State Physics A.D. Boardman, M. Bertolotti, T. Twardowski, 2012-12-06 This book is based on the contributions to the 17th International School of Materials Science and Technology entitled Nonlinear Waves in Solid State Physics This was held as a NATO Advanced Study Institute at the Ettore Majorana Centre in Erice Sicily between the 1st and 15 July 1989 and attracted almost 100 participants from over 20 different countries The book covers the fundamental properties of nonlinear waves in solid state materials dealing with both theory and experiment The aim is to emphasise the methods underpinning the important new developments in this area The material is organised into subject areas that can broadly be classified into the following groups the theory of nonlinear surface and guided waves in self focusing magnetic and non magnetic materials nonlinear effects at interfaces nonlinear acoustoelectronic and surface acoustic waves Lagrangian and Hamiltonian formulations of nonlinear problems nonlinear effects in optical fibres resonance phenomena and nonlinear integrated optics The chapters have been grouped together according to these classifications as closely as possible but it should be borne in mind that although there is much overlap of ideas each chapter is essentially independent of the others We would like to acknowledge the sponsorship of the NATO Scientific Affairs Division the European Physical Society the National Science Foundation of the USA the European Research Office the Italian Ministry of Education the Italian Ministry of Scientific and Technological Research the Sicilian Regional Government and the Ugo Bordoni Foundation

Lectures on Nonlinear Wave Equations Christopher Donald Sogge, 1995 This work presents three types of problems in the theory of nonlinear wave equations that have varying degrees of non trivial overlap with harmonic analysis The author discusses results including existence for certain quasilinear wave equations and for semilinear wave equations

The Effective Behaviour of Linear and Nonlinear Waves in Irregular Channels André Nachbin, 2001

Supersonic Flow and Shock Waves Richard Courant, K.O. Friedrichs, 1999-02-11 Courant and Friedrichs' classical treatise was first published in 1948 and the basic research for it took place during World War II However many aspects make the book just as interesting as a text and a reference today It treats the dynamics of compressible fluids in mathematical form and attempts to present a systematic theory of nonlinear wave propagation particularly in relation to gas dynamics Written in the form of an advanced textbook it should appeal to engineers physicists and mathematicians alike

Spectral and Dynamical Stability of Nonlinear Waves Todd Kapitula, Keith Promislow, 2013-06-06 This book unifies the dynamical systems and functional analysis approaches to the linear and nonlinear stability of waves It synthesizes fundamental ideas of the past 20 years of research carefully balancing theory and

application The book isolates and methodically develops key ideas by working through illustrative examples that are subsequently synthesized into general principles Many of the seminal examples of stability theory including orbital stability of the KdV solitary wave and asymptotic stability of viscous shocks for scalar conservation laws are treated in a textbook fashion for the first time It presents spectral theory from a dynamical systems and functional analytic point of view including essential and absolute spectra and develops general nonlinear stability results for dissipative and Hamiltonian systems The structure of the linear eigenvalue problem for Hamiltonian systems is carefully developed including the Krein signature and related stability indices The Evans function for the detection of point spectra is carefully developed through a series of frameworks of increasing complexity Applications of the Evans function to the Orientation index edge bifurcations and large domain limits are developed through illustrative examples The book is intended for first or second year graduate students in mathematics or those with equivalent mathematical maturity It is highly illustrated and there are many exercises scattered throughout the text that highlight and emphasize the key concepts Upon completion of the book the reader will be in an excellent position to understand and contribute to current research in nonlinear stability

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

A Course on Nonlinear Waves S.S. Shen, 2012-12-06 The aim of this book is to give a self contained introduction to the mathematical analysis and physical explanations of some basic nonlinear wave phenomena This volume grew out of lecture notes for graduate courses which I gave at the University of Alberta the University of Saskatchewan and Texas A yet practical methodology as well as some of the more important results obtained since the 1950 s Although the primary purpose of this volume is to serve as a textbook it should be useful to anyone who wishes to understand or conduct research into nonlinear waves Here for the first time materials on X ray crystallography and the forced Korteweg de Vries equation are incorporated naturally into a textbook on nonlinear waves Another characteristic feature of the book is the inclusion of four symbolic calculation programs written in MATHEMATICA They emphasize outcomes rather than numerical methods and provide certain symbolic and numerical results related to solitons Requiring only one or two commands to run these programs have user friendly interfaces For example to get the explicit expression of the 2 soliton of the Korteweg de Vries equation one only needs to type in soliton 2 when using the program solipac m

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