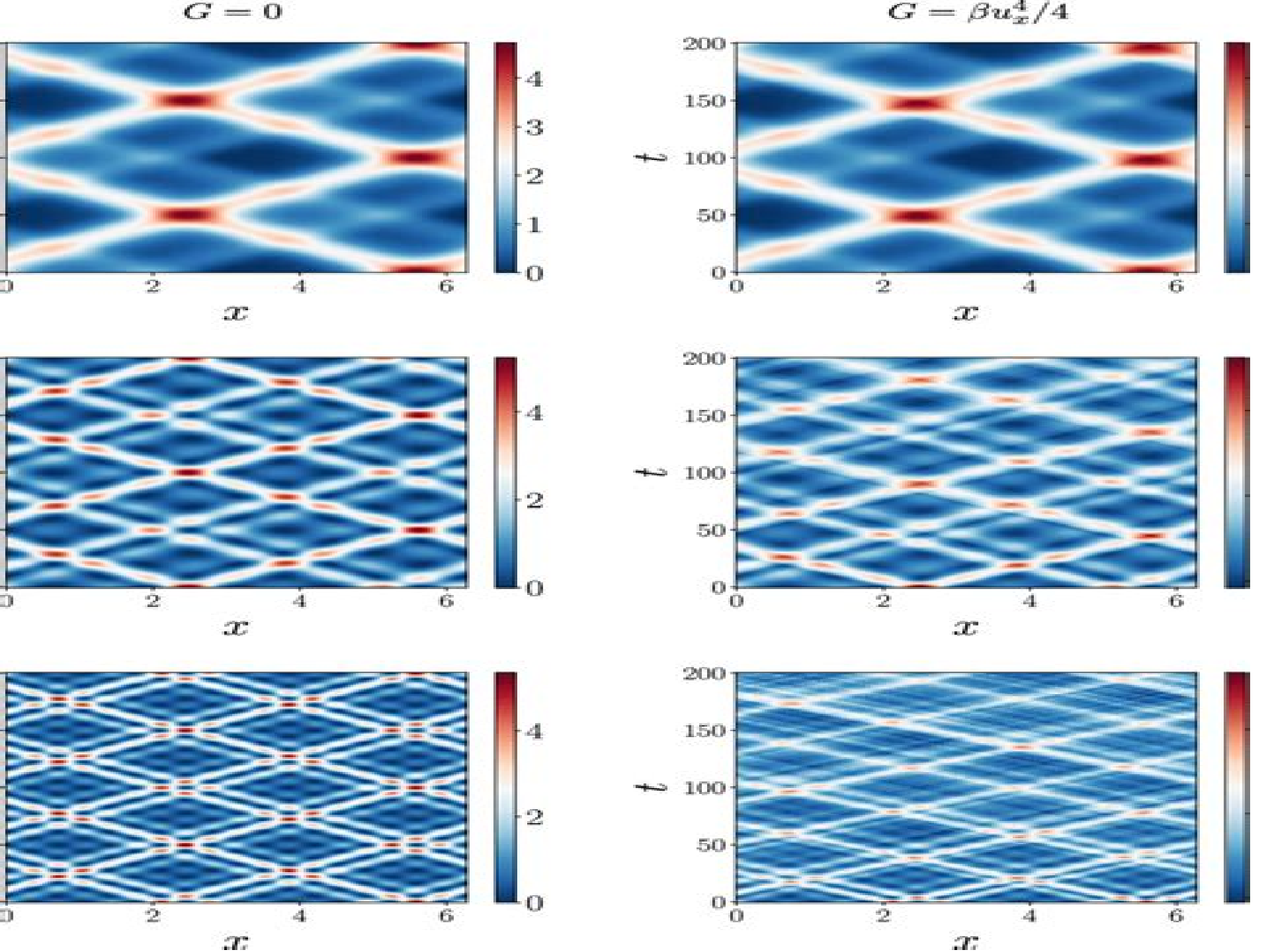
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# Nonlinear Waves

N Colangelo

**Nonlinear Waves:**

**Linear and Nonlinear Waves** G. B. Whitham,2011-10-18 Now in an accessible paperback edition this classic work is just as relevant as when it first appeared in 1974 due to the increased use of nonlinear waves It covers the behavior of waves in two parts with the first part addressing hyperbolic waves and the second addressing dispersive waves The mathematical principles are presented along with examples of specific cases in communications and specific physical fields including flood waves in rivers waves in glaciers traffic flow sonic booms blast waves and ocean waves from storms **Advances in Nonlinear Waves** ,1984 **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 **Nonlinear Waves in Solids** A. Jeffrey,J. Engelbrecht,2014-05-04 Travelling wave processes and wave motion are of great importance in many areas of mechanics and nonlinearity also plays a decisive role there The basic mathematical models in this area involve nonlinear partial differential equations and predictability of behaviour of wave phenomena is of great importance Beside fluid dynamics and gas dynamics which have long been the traditional nonlinear scienes solid mechanics is now taking an ever increasing account of nonlinear effects Apart from plasticity and fracture mechanics nonlinear elastic waves have been shown to be of great importance in many areas such as the study of impact nondestructive testing and seismology These lectures offer a thorough account of the fundamental theory of nonlinear deformation waves and in the process offer an up to date account of the current state of research in the theory and practice of nonlinear waves in solids *Nonlinear Waves* Lokenath Debnath,2009-01-08 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 K dV equations solitions 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 solitions in plasmas

**Nonlinear Waves: A Geometrical Approach** Petar Radoev Popivanov,Angela Slavova,2018-11-16 This volume provides an in depth treatment of several equations and systems of mathematical physics describing the propagation and interaction of nonlinear waves as different modifications of these the KdV equation Fornberg Whitham equation Vakhnenko equation Camassa Holm equation several versions of the NLS equation Kaup Kupershmidt equation Boussinesq paradigm and Manakov system amongst others as well as symmetrizable quasilinear hyperbolic systems arising in fluid dynamics Readers not familiar with the complicated methods used in the theory of the equations of mathematical physics functional analysis harmonic analysis spectral theory topological methods a priori estimates conservation laws can easily be acquainted here with different solutions of some nonlinear PDEs written in a sharp form waves with their geometrical visualization and their interpretation In many cases explicit solutions waves having specific physical interpretation solitons kinks peakons ovals loops rogue waves are found and their interactions are studied and geometrically visualized To do this classical methods coming from the theory of ordinary differential equations the dressing method Hirota s direct method and the method of the simplest equation are introduced and applied At the end the paradifferential approach is used This volume is self contained and equipped with simple proofs It contains many exercises and examples arising from the applications in mechanics physics optics and quantum mechanics Nonlinear Waves Emmanuel Kengne,WuMing Liu,2023-02-23 This book highlights the methods to engineer dissipative and magnetic nonlinear waves propagating in nonlinear systems In the first part of the book the authors present methodologically mathematical models of nonlinear waves propagating in one and two dimensional nonlinear transmission networks without with dissipative elements Based on these models the authors investigate the generation and the transmission of nonlinear modulated waves in general and solitary waves in particular in networks under consideration In the second part of the book the authors develop basic theoretical results for the dynamics matter wave and magnetic wave solitons of nonlinear systems and of Bose Einstein condensates trapped in external potentials combined with the time modulated nonlinearity The models treated here are based on one two and three component non autonomous Gross Pitaevskii equations Based on the Heisenberg model of spin spin interactions the authors also investigate the dynamics of magnetization in ferromagnet with or without spin transfer torque This research book is suitable for physicists mathematicians engineers and graduate students in physics mathematics and network and information engineering

*Quantum Mechanics and Nonlinear Waves* Philip Barnes Burt,1981 **Nonlinear Waves 1** Andrei V. Gaponov-Grekhov,Mikhail I. Rabinovich,Jüri Engelbrecht,2012-12-06 Since 1972 the Schools on Nonlinear Physics in Gorky have been a meeting place for Soviet scientists working in this field Instead of producing for the first time English

proceedings it has been decided to present a good cross section of nonlinear physics in the USSR Thus the participants at the last School were invited to provide English reviews and research papers for these two volumes which in the years to come will be followed by the proceedings of forthcoming schools The first volume starts with a historical overview of nonlinear dynamics from Poincar to the present day and touches topics like attractors nonlinear oscillators and waves turbulence pattern formation and dynamics of structures in nonequilibrium dissipative media It then deals with structures bistabilities instabilities chaos dynamics of defects in 1d systems self organizations solitons spatio temporal structures and wave collapse in optical systems lasers plasmas reaction diffusion systems and solids **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 fan of nonlinear wave phenomena without relying on other books Nonlinear Waves in Integrable and Nonintegrable Systems Jianke Yang,2010-01-01 Presents cutting edge developments in the theory and experiments of nonlinear waves Its comprehensive coverage of analytical and numerical methods for nonintegrable systems is the first of its kind **Nonlinear Waves 3** Andrei V. Gaponov-Grekhov,Mikhail I. Rabinovich,Jüri Engelbrecht,2012-12-06 Since 1972 the Schools on Nonlinear Physics in Gorky have been a meeting place for Soviet Scientists working in this field Since 1989 the proceedings appear in English They present a good cross section of nonlinear physics in the USSR This third volume emerged from material presented at the 1989 School It contains sections dealing with nonlinear problems in physics and astrophysics quantum and solid state physics dynamical chaos and self organization *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 K dV equations solitions 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 solitions in plasmas *Nonlinear Waves in Elastic Media* A.G. Kulikovskii,Elena I. Sveshnikova,2021-07-01 Nonlinear Waves in Elastic Media explores the theoretical results of one dimensional nonlinear waves including shock waves in elastic media It is the first book to provide an in depth and comprehensive presentation of the nonlinear wave theory while taking anisotropy effects into account The theory is completely worked out and draws on 15 years of research by the authors one of whom also wrote the 1965 classic Magnetohydrodynamics Nonlinear Waves in Elastic Media emphasizes the behavior of quasitransverse waves and analyzes arbitrary discontinuity disintegration problems illustrating that the solution can be non unique a surprising result The solution is shown to be especially interesting when anisotropy and nonlinearity effects interact even in small amplitude waves In addition the text contains an independent mathematical chapter describing general methods to study hyperbolic systems expressing the conservation laws The theoretical results described in Nonlinear Waves in Elastic Media allow for the first time discovery and interpretation of many new peculiarities inherent to the general problem of discontinuous solutions and so provide a valuable resource for advanced students and researchers involved with continuum mechanics and partial differential equations Nonlinear Waves and Solitons M. Toda,1989-11-30 it is certainly a beautiful presentation very well adapted to teaching beginners I am sure this book will be successful Inverse Problems 1990 Nonlinear Waves in Fluids: Recent Advances and Modern Applications Roger Grimshaw,2007-03-23 Although nonlinear waves occur in nearly all branches of physics and engi neering there is an amazing degree of agreement about the fundamental con cepts and the basic paradigms The underlying unity of the theory for linearized waves is already well established with the importance of such universal concepts as group velocity and wave superposition For nonlinear waves the last few decades have seen the emergence of analogous unifying comcepts The pervasiveness of the soliton concept is amply demonstrated by the ubiquity of such models as the Korteweg de Vries equation and the nonlinear Schrodinger equation Similarly there is a universality in the study of wave wave interactions whether determin istic or statistical and in the recent developments in the theory of wave mean flow interactions The aim of this text is to present the basic paradigms of weakly nonlinear waves in fluids This book is the outcome of a CISM Summer School held at Udine from September 20 24 2004 Like the lectures given there the text covers asymptotic methods for the derivation of canonical evolution equations such as the Kortew de Vries and nonlinear Schrodinger equations descriptions of the basic solution sets of these evolution equations and the most relevant and compelling applica tions These themes are interlocked and this will be demonstrated throughout the text The topics address any fluid flow application but there is a bias towards geophysical fluid dynamics reflecting for the most part the areas where many applications have been found **Nonlinear Ocean Waves and the Inverse Scattering Transform** Alfred Osborne,2010-04-07 For more than 200 years the Fourier Transform has been one of the most important mathematical tools

for understanding the dynamics of linear wave trains Nonlinear Ocean Waves and the Inverse Scattering Transform presents the development of the nonlinear Fourier analysis of measured space and time series which can be found in a wide variety of physical settings including surface water waves internal waves and equatorial Rossby waves This revolutionary development will allow hyperfast numerical modelling of nonlinear waves greatly advancing our understanding of oceanic surface and internal waves Nonlinear Fourier analysis is based upon a generalization of linear Fourier analysis referred to as the inverse scattering transform the fundamental building block of which is a generalized Fourier series called the Riemann theta function Elucidating the art and science of implementing these functions in the context of physical and time series analysis is the goal of this book Presents techniques and methods of the inverse scattering transform for data analysis Geared toward both the introductory and advanced reader venturing further into mathematical and numerical analysis Suitable for classroom teaching as well as research **Introduction to the Mathematical Physics of Nonlinear Waves** Minoru Fujimoto,2014-03-01 Nonlinear physics is a well established discipline in physics today and this book offers a comprehensive account of the basic soliton theory and its applications Although primarily mathematical the theory for nonlinear phenomena in practical environment **Nonlinear Waves, Solitons and Chaos** Eryk Infeld,George Rowlands,2000-07-13 This revised and updated second edition of a highly successful book is the only text at this level to embrace a universal approach to three major developments in classical physics namely nonlinear waves solitons and chaos The authors now include new material on biology and laser theory and go on to discuss important recent developments such as soliton metamorphosis A comprehensive treatment of basic plasma and fluid configurations and instabilities is followed by a study of the relevant nonlinear structures Each chapter concludes with a set of problems This text will be particularly valuable for students taking courses in nonlinear aspects of physics In general it will be of value to final year undergraduates and beginning graduate students studying fluid dynamics plasma physics and applied mathematics **Nonlinear Waves in Elastic Media** A.G. Kulikovskii,Elena I. Sveshnikova,2021-06-30 Nonlinear Waves in Elastic Media explores the theoretical results of one dimensional nonlinear waves including shock waves in elastic media It is the first book to provide an in depth and comprehensive presentation of the nonlinear wave theory while taking anisotropy effects into account The theory is completely worked out and draws on 15 years of research by the authors one of whom also wrote the 1965 classic Magnetohydrodynamics Nonlinear Waves in Elastic Media emphasizes the behavior of quasitransverse waves and analyzes arbitrary discontinuity disintegration problems illustrating that the solution can be non unique a surprising result The solution is shown to be especially interesting when anisotropy and nonlinearity effects interact even in small amplitude waves In addition the text contains an independent mathematical chapter describing general methods to study hyperbolic systems expressing the conservation laws The theoretical results described in Nonlinear Waves in Elastic Media allow for the first time discovery and interpretation of many new peculiarities inherent to the general problem of discontinuous solutions and

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