

A Course on Nonlinear Waves

by

Kenneth S. Thorne
Department of Mathematics
University of Alberta
Edmonton, Alberta, Canada



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Course On Nonlinear Waves

Michael Hoelscher



Course On Nonlinear 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

Nonlinear Periodic Waves and Their Modulations Anatoli? Mikha?lovich Kamchatnov, 2000 Although the mathematical theory of nonlinear waves and solitons has made great progress its applications to concrete physical problems are rather poor especially when compared with the classical theory of linear dispersive waves and nonlinear fluid motion The Whitham method which describes the combining action of the dispersive and nonlinear effects as modulations of periodic waves is not widely used by applied mathematicians and physicists though it provides a direct and natural way to treat various problems in nonlinear wave theory Therefore it is topical to describe recent developments of the Whitham theory in a clear and simple form suitable for applications in various branches of physics This book develops the techniques of the theory of nonlinear periodic waves at elementary level and in great pedagogical detail It provides an introduction to a Whitham s theory of modulation in a form suitable for applications The exposition is based on a thorough analysis of representative examples taken from fluid mechanics nonlinear optics and plasma physics rather than on the formulation and study of a mathematical theory Much attention is paid to physical motivations of the mathematical methods developed in the book The main applications considered include the theory of collisionless shock waves in dispersive systems and the nonlinear theory of soliton formation in modulationally unstable systems Exercises are provided to amplify the discussion of important topics such as singular perturbation theory Riemann invariants the finite gap integration method and Whitham equations and their solutions

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 and 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.

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 **Lectures on the Energy Critical Nonlinear Wave Equation** Carlos E. Kenig, 2015-04-14 This monograph deals with recent advances in the study of the long time asymptotics of large solutions to critical nonlinear dispersive equations. The first part of the monograph describes in the context of the energy critical wave equation the concentration compactness rigidity theorem method introduced by C Kenig and F Merle. This approach has become the canonical method for the study of the global regularity and well posedness conjecture defocusing case and the ground state conjecture focusing case in critical dispersive problems. The second part of the monograph describes the channel of energy method introduced by T Duyckaerts C Kenig and F Merle to study soliton resolution for nonlinear wave equations. This culminates in a presentation of the proof of the soliton resolution conjecture for the three dimensional radial focusing energy critical wave equation. It is the intent that the results described in this book will be a model for what to strive for in the study of other nonlinear dispersive equations. A co publication of the AMS and CBMS *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 Ray Methods for Nonlinear Waves in Fluids and Plasmas Marcello Anile, P. Pantano, J. Hunter, G. Russo, 2019-12-02 Presents in a systematic and unified manner the ray method in its various forms for studying nonlinear wave propagation in situations of physical interest essentially fluid

dynamics and plasma physics

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

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: 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 paradiifferential 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 And Inverse Scattering Transform Spencer P Kuo,2023-06-26 Nonlinear waves are essential phenomena in scientific and engineering disciplines The features of nonlinear waves are usually described by solutions to nonlinear partial differential equations NLPDEs This book was prepared to familiarize students with nonlinear waves and methods of solving NLPDEs which will enable them to expand their studies into related areas The selection of topics and the focus given to each provide essential materials for a lecturer teaching a nonlinear wave course Chapter 1 introduces mode types in nonlinear systems as well as Bäcklund transform an indispensable technique to solve generic NLPDEs for stationary solutions Chapters 2 and 3 are devoted to the derivation and solution characterization of three generic nonlinear equations nonlinear Schrödinger equation Korteweg de Vries KdV equation and Burgers equation Chapter 4 is devoted to the inverse scattering transform IST addressing the initial value problems of a group of NLPDEs In Chapter 5 derivations and proofs of the IST formulas are presented Steps for applying IST to solve NLPDEs for solitary solutions are illustrated in Chapter 6 Evolution of Extreme Waves and Resonances Shamil U. Galiev,2020-06-10 The theory of waves is generalized on cases of strongly nonlinear waves multivalued waves and particle waves The appearance of these waves in various continuous media and physical fields is explained by resonances and nonlinearity effects Extreme waves emerging in different artificial and natural systems from atom scale to the Universe are explored Vast amounts of experimental data and comparisons of them with the results of the developed theory are presented The book was written for graduate students as well as for researchers and engineers in the fields of geophysics nonlinear wave studies cosmology physical oceanography and ocean and coastal engineering It is designed as a professional reference for those working in the wave analysis and modeling fields European Journal of Mechanics ,1994 **Nonlinear Waves** Petar Radoev Popivanov,2010 *International Topical Meeting on Education and Training in Optics* ,1997 **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 engineering there is an amazing degree of agreement about the fundamental concepts 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 concepts 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 deterministic 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 applications 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

Lectures on Non-linear Wave Equations Christopher Donald Sogge, 2008 Presents an account of the basic facts concerning the linear wave equation and the methods from harmonic analysis that are necessary when studying nonlinear hyperbolic differential equations This book examines quasilinear equations with small data where the Klainerman Sobolev inequalities and weighted space time estimates are introduced

Fifth International Topical Meeting on Education and Training in Optics C. H. F. Velzel, 1997 *International Conference on Education in Optics*, 1995 [Applied Mechanics Reviews](#), 1995

Adopting the Tune of Appearance: An Emotional Symphony within **Course On Nonlinear Waves**

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