

Wave Motion, Intelligent Structures and Nonlinear Mechanics

A Herbert Overall Festschrift Volume

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Nonlinear Wave Motion

Mitsuhiro Tanaka

Nonlinear Wave Motion:

Nonlinear Wave Motion Alan Jeffrey,1989 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 sciences 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 Wave Motion** Kurt Otto Friedrichs,1958

Lectures on Nonlinear Wave Motion Thomas Brooke Benjamin,1973 Some Aspects of Nonlinear Wave Motion in Shallow Water Jon Christian Luke,1963 Ray Methods for Nonlinear Waves in Fluids and Plasmas Marcelo Anile,P Pantano,G Russo,J Hunter,2021-06-23 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

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 **Nonlinear Wave Motion** Alan Jeffrey,1989 Notes on Magneto-Hydrodynamics, Vol. 8 K. O. Friedrichs,2016-08-26 Excerpt from Notes on Magneto Hydrodynamics Vol 8 Nonlinear Wave Motion Some of the problems described in the preliminary report were subsequently treated extensively by Bazer and by Bazer and Ericson About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find

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Nonlinear Wave Motion in Magneto-hydrodynamics Kurt Otto Friedrichs,1957 [Active and Nonlinear Wave Propagation in Electronics](#) Alwyn Scott,1970 **Introduction to Wave**

Propagation in Nonlinear Fluids and Solids D. S. Drumheller,1998-02-13 Waves occur widely in nature and have innumerable commercial uses Pressure waves are responsible for the transmission of speech bow waves created by meteors can virtually ignite the earth's atmosphere ultrasonic waves are used for medical imaging and shock waves are used for the synthesis of new materials This book provides a thorough modern introduction to the study of linear and nonlinear waves Beginning with fundamental concepts of motion the book goes on to discuss linear and nonlinear mechanical waves thermodynamics and constitutive models It covers gases liquids and solids as integral parts of the subject Among the important areas of research and application are impact analysis shock wave research explosive detonation nonlinear acoustics and hypersonic aerodynamics Graduate students as well as professional engineers and applied physicists will value this clear comprehensive introduction to the study of wave phenomena

Selected Topics in Nonlinear Wave Mechanics C.I. Christov,Arde Guran,2001-10-26 This book gives an overview of the current state of nonlinear wave mechanics with emphasis on strong discontinuities shock waves and localized self preserving shapes solitons in both elastic and fluid media The exposition is intentionally at a detailed mathematical and physical level our expectation being that the reader will enjoy coming to grips in a concrete manner with advances in this fascinating subject Historically modern research in nonlinear wave mechanics began with the famous 1858 piston problem paper of Riemann on shock waves and continued into the early part of the last century with the work of Hadamard Rankine and Hugoniot After WWII research into nonlinear propagation of dispersive waves rapidly accelerated with the advent of computers Works of particular importance in the immediate post war years include those of von Neumann Fermi and Lax Later additional contributions were made by Lighthill Glimm Strauss Wendroff and Bishop Dispersion alone leads to shock fronts of the propagating waves That the nonlinearity can compensate for the dispersion leading to propagation with a stable wave having constant velocity and shape solitons came as a surprise A solitary wave was first discussed by J Scott Russell in 1845 in Report of British Associations for the Advancement of Science He had while horseback riding observed a solitary wave travelling along a water channel and followed its unbroken progress for over a mile

Nonlinear Wave Dynamics J. Engelbrecht,2013-04-17 At the end of the twentieth century nonlinear dynamics turned out to be one of the most challenging and stimulating ideas Notions like

bifurcations attractors chaos fractals etc have proved to be useful in explaining the world around us be it natural or artificial

However much of our everyday understanding is still based on linearity i e on the additivity and the proportionality The larger the excitation the larger the response this seems to be carved in a stone tablet The real world is not always reacting this way and the additivity is simply lost The most convenient way to describe such a phenomenon is to use a mathematical term nonlinearity The importance of this notion i e the importance of being nonlinear is nowadays more and more accepted not only by the scientific community but also globally The recent success of nonlinear dynamics is heavily biased towards temporal characterization widely using nonlinear ordinary differential equations Nonlinear spatio temporal processes i e nonlinear waves are seemingly much more complicated because they are described by nonlinear partial differential equations The richness of the world may lead in this case to coherent structures like solitons kinks breathers etc which have been studied in detail Their chaotic counterparts however are not so explicitly analysed yet The wavebearing physical systems cover a wide range of phenomena involving physics solid mechanics hydrodynamics biological structures chemistry etc

Nonlinear Wave Motion in an Infinite Cylindrical Plasma Confined by a Magnetic Field Chong-wei Chu,1963

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

Waveguide Propagation of Nonlinear Waves Sergey Leble,2019-07-03 This book addresses the peculiarities of nonlinear wave propagation in waveguides and explains how the stratification depends on the waveguide and confinement An example of this is an optical fibre that does not allow light to pass through a density jump The book also discusses propagation in the nonlinear regime which is characterized by a specific waveform and amplitude to demonstrate so called solitonic behaviour In this case a wave may be strongly localized and propagates with a weak change in shape In the waveguide case there are additional contributions of dispersion originating from boundary or asymptotic conditions Offering concrete guidance on

solving application problems this essentially more than twice expanded second edition includes various aspects of guided propagation of nonlinear waves as well as new topics like solitonic behaviour of one mode and multi mode excitation and propagation and plasma waveguides propagation peculiarities of electromagnetic waves in metamaterials new types of dispersion dissipation electromagnetic waveguides planetary waves and plasma waves interaction The key feature of the solitonic behaviour is based on Coupled KdV and Coupled NS systems The systems are derived in this book and solved numerically with the proof of stability and convergence The domain wall dynamics of ferromagnetic microwaveguides and Bloch waves in nano waveguides are also included with some problems of magnetic momentum and charge transport

Questions About Elastic Waves Jüri Engelbrecht,2015-03-05 This book addresses the modelling of mechanical waves by asking the right questions about them and trying to find suitable answers The questions follow the analytical sequence from elementary understandings to complicated cases following a step by step path towards increased knowledge The focus is on waves in elastic solids although some examples also concern non conservative cases for the sake of completeness Special attention is paid to the understanding of the influence of microstructure nonlinearity and internal variables in continua With the help of many mathematical models for describing waves physical phenomena concerning wave dispersion nonlinear effects emergence of solitary waves scales and hierarchies of waves as well as the governing physical parameters are analysed Also the energy balance in waves and non conservative models with energy influx are discussed Finally all answers are interwoven into the canvas of complexity

Nonlinear Waves in Active Media Jüri Engelbrecht,2012-12-06 This volume contains the contributions to the Euromech Colloquium No 241 on Nonlinear Waves in Active Media at the Institute of Cybernetics of the Estonian Academy of Sciences Tallinn Estonia USSR September 27 30 1988 The Co chairmen of the Euromech Colloquium felt that it would be a good service to the community to publish these proceedings First the topic itself dealing with various wave processes with energy influx is extremely interesting and attracted a much larger number of participants than usual a clear sign of its importance to the scientific community Second Euromech No 241 was actually the first Euromech Colloquium held in the Soviet Union and could thus be viewed as a milestone in the extending scientific contacts between East and West At the colloquium 50 researchers working in very different branches of science met to lecture on their results and to discuss problems of common interest An introductory paper by I Engelbrecht presents the common motivation and background of the topics covered Altogether 36 speakers presented their lectures of which 30 are gathered here The remaining six papers which will appear elsewhere are listed on page X In addition three contributions by authors who could not attend the colloquium are included The two lectures given by A S Mikhailov V S Davydov and V S Zykov are here published as one long paper

3D Modeling of Nonlinear Wave Phenomena on Shallow Water Surfaces Iftikhar B. Abbasov,2018-01-31 With climate change erosion and human encroachment on coastal environments growing all over the world it is increasingly important to protect populations and environments close to the sea from storms

tsunamis and other events that can be not just costly to property but deadly This book is one step in bringing the science of protection from these events forward the most in depth study of its kind ever published The analytic and numerical modeling problems of nonlinear wave activities in shallow water are analyzed in this work Using the author s unique method described herein the equations of shallow water are solved and asymmetries that cannot be described by the Stokes theory are solved Based on analytical expressions the impacts of dispersion effects to wave profiles transformation are taken into account The 3D models of the distribution and refraction of nonlinear surface gravity wave at the various coast formations are introduced as well The work covers the problems of numerical simulation of the run up of nonlinear surface gravity waves in shallow water transformation of the surface waves for the 1D case and models for the refraction of numerical modeling of the run up of nonlinear surface gravity waves at beach approach of various slopes 2D and 3D modeling of nonlinear surface gravity waves are based on Navier Stokes equations In 2D modeling the influence of the bottom of the coastal zone on flooding of the coastal zone during storm surges was investigated Various stages of the run up of nonlinear surface gravity waves are introduced and analyzed The 3D modeling process of the run up is tested for the coast protection work of the slope type construction Useful for students and veteran engineers and scientists alike this is the only book covering these important issues facing anyone working with coastal models and ocean coastal and civil engineering in this area

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