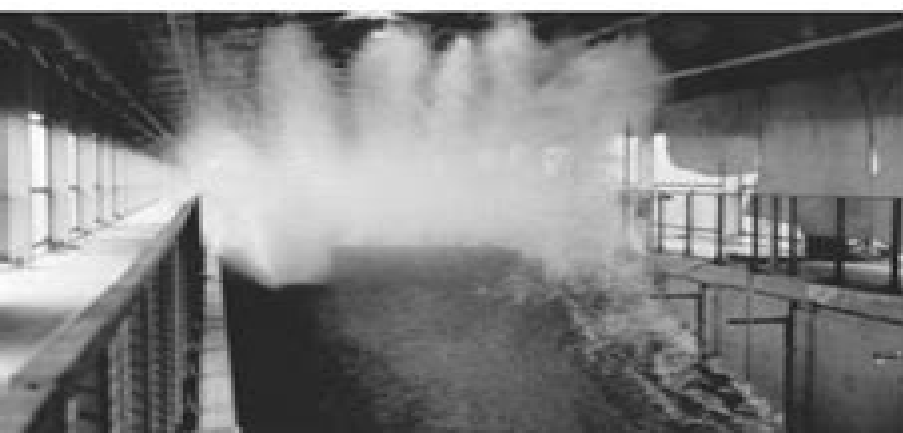
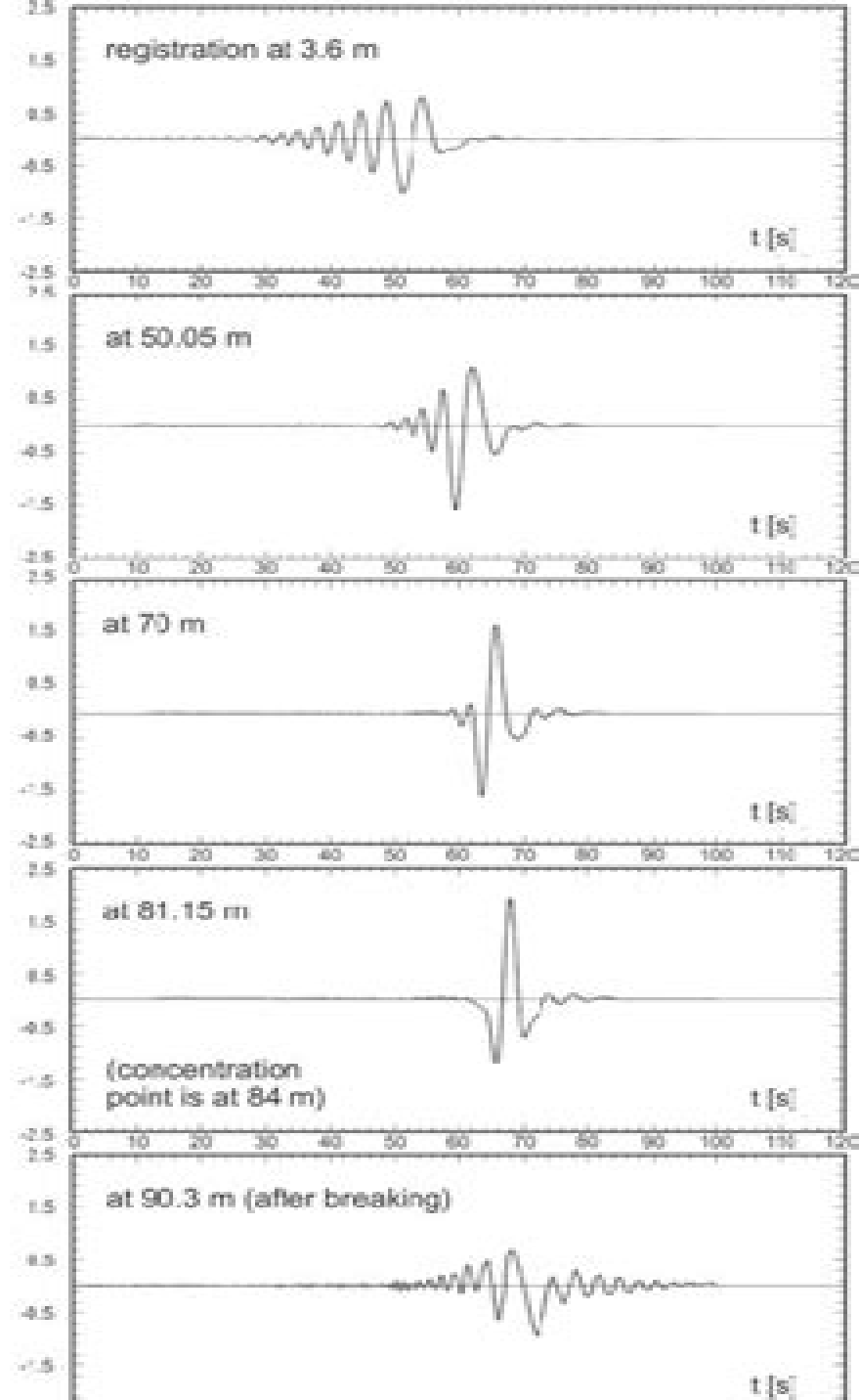




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Xiaolong Qi



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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 **Active and Nonlinear Wave Propagation in Electronics** Alwyn Scott, 1970

Introduction to Wave Propagation in Nonlinear Fluids and Solids Douglas S. Drumheller, 1998-02-13 Waves occur widely in nature and have innumerable commercial uses Waves are responsible for the sound of speech meteors igniting the atmosphere radio and television broadcasting medical diagnosis using ultrasound 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 for a variety of gases liquids and solids Among the important areas of research and application are impact analysis shock wave research explosive detonation nonlinear acoustics and hypersonic aerodynamics Students at an advanced undergraduate graduate level will find this text a clear and comprehensive introduction to the study of nonlinear wave phenomena and it will also be valuable as a professional reference in engineering and applied physics Non-linear Wave Propagation Alan Jeffrey, Tosiya Taniuti, 1964

Mathematical Problems of Nonlinear Wave Propagation and of Waves in Heterogeneous Media Joseph B. Keller, STANFORD UNIV CA APPLIED MATHEMATICS GROUP., 1988 The asymptotic behavior of weakly nonlinear waves at caustics is determined for nonlinear wave propagation A theory is developed for the propagation of short waves of any strength A method is found for analyzing the stability of a large class of nonlinear waves The theory of acoustoelasticity is reduced by considering nonlinear effects on waves in granular material The theory of waves in heterogeneous media analyzed scattering by slender bodies The pass and stop bands are determined for waves in stratified periodic media The same is done for an acoustic medium containing rigid spheres arranged in a simple cubic lattice The amplitude equations are

determine for resonantly interacting water waves in water of nonuniform depth Keywords Nonlinear waves Heterogenous media Reciprocal theorems Effective parameters Pouring flows Surface flow Weir flow Caustics of nonlinear waves Asymptotic behavior of stability regions for Hill s equation Stability of periodic plane waves Lower bounds of permeability Newtons second law Stability of plane wave solutions of nonlinear systems Resonantly interacting water waves Nonlinear hyperbolic waves jhd

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

Mathematical Studies in Nonlinear Wave Propagation Dominic P. Clemence,Guoqing Tang,2005 Lively discussions and stimulating research were part of a five day conference on Mathematical Methods in Nonlinear Wave Propagation sponsored by the NSF and CBMS This volume is a collection of lectures and papers stemming from that event Leading experts present dynamical systems and chaos scattering and spectral theory nonlinear wave equations optimal control optical waveguide design and numerical simulation The book is suitable for a diverse audience of mathematical specialists interested in fiber optic communications and other nonlinear phenomena It is also suitable for engineers and other scientists interested in the mathematics of nonlinear wave propagation

Dynamic Non-linear Wave Propagation in Ionized Media ,1961

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Nonlinear Wave Processes in Acoustics K. Naugolnykh, L. Ostrovsky, 1998-05-28 This text considers models of different acoustic media as well as equations and behavior of finite amplitude waves It also considers the effects of nonlinearity dissipation dispersion and for two and three dimensional problems reflection and diffraction on the evolution and interaction of acoustic beams

Nonlinear Waves , Edited by Sidney Leibovich and A. Richard Seebass Sidney Leibovich, A. Richard Seebass, 1974

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Waveguide Propagation of Nonlinear Waves Sergey Leble, 2019 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

Weakly Nonlinear Wave Propagation John Kelso Hunter, 1981

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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

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