

Nonlinear diffusive waves

P. L. Sachdev

Nonlinear Diffusive Waves

Henri Berestycki, Yves Pomeau



Nonlinear Diffusive Waves:

Nonlinear Diffusive Waves P. L. Sachdev, 2009-01-08 This monograph deals with Burgers equation and its generalisations. Such equations describe a wide variety of nonlinear diffusive phenomena for instance in nonlinear acoustics, laser physics, plasmas and atmospheric physics. The Burgers equation also has mathematical interest as a canonical nonlinear parabolic differential equation that can be exactly linearised. It is closely related to equations that display soliton behaviour and its study has helped elucidate other such nonlinear behaviour. The approach adopted here is applied mathematical. The author discusses fully the mathematical properties of standard nonlinear diffusion equations and contrasts them with those of Burgers equation. Of particular mathematical interest is the treatment of self-similar solutions as intermediate asymptotics for a large class of initial value problems whose solutions evolve into self-similar forms. This is achieved both analytically and numerically.

Travelling Waves in Nonlinear Diffusion-Convection Reaction Brian H. Gilding, Robert Kersner, 2012-12-06 This monograph has grown out of research we started in 1987 although the foundations were laid in the 1970s when both of us were working on our doctoral theses trying to generalize the now classic paper of Oleinik, Kalashnikov and Chzhou on nonlinear degenerate diffusion. Brian worked under the guidance of Bert Peletier at the University of Sussex in Brighton, England and later at Delft University of Technology in the Netherlands on extending the earlier mathematics to include nonlinear convection while Robert worked at Lomonosov State University in Moscow under the supervision of Anatolii Kalashnikov on generalizing the earlier mathematics to include nonlinear absorption. We first met at a conference held in Rome in 1985. In 1987 we met again in Madrid at the invitation of Ildefonso Diaz where we were both staying at La Residencia. As providence would have it, the University Complutense closed down during this visit in response to student demonstrations and we were very much left to our own devices. It was natural that we should gravitate to a research topic of common interest. This turned out to be the characterization of the phenomenon of finite speed of propagation for nonlinear reaction-convection-diffusion equations. Brian had just completed some work on this topic for nonlinear diffusion-convection while Robert had earlier done the same for nonlinear diffusion-absorption. There was no question but that we bundle our efforts on the general situation.

Travelling Waves in Nonlinear Diffusion-Convection Reaction Brian H. Gilding, Robert Kersner, 2004-07-23 This monograph has grown out of research we started in 1987 although the foundations were laid in the 1970s when both of us were working on our doctoral theses trying to generalize the now classic paper of Oleinik, Kalashnikov and Chzhou on nonlinear degenerate diffusion. Brian worked under the guidance of Bert Peletier at the University of Sussex in Brighton, England and later at Delft University of Technology in the Netherlands on extending the earlier mathematics to include nonlinear convection while Robert worked at Lomonosov State University in Moscow under the supervision of Anatolii Kalashnikov on generalizing the earlier mathematics to include nonlinear absorption. We first met at a conference held in Rome in 1985. In 1987 we met again in Madrid at the invitation of Ildefonso Diaz where we were both

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Nonlinear Waves in Real Fluids A. Kluwick, 2014-05-04 The study of materials which exhibit new and unconventional properties is of central importance for the development of advanced and refined technologies in many fields of engineering science In this connection there has been a rapidly growing interest in real fluid effects on wave phenomena in the past few years A prominent example is provided by Bethe Zel'dovich Thompson BZT fluids which have the distinguishing feature that they exhibit negative nonlinearity over a finite range of temperature and pressures in the pure vapour phase However two phase flows with and without phase change are an even richer source of new unexpected and previously thought impossible phenomena Topics covered by this volume include waves in gases near the critical point waves in retrograde fluids temperature waves in superfluid helium and density waves in suspensions of particles in liquids Clearly the aim of the various contributions is twofold First they are intended to provide scientists and engineers working in these and related areas with an overview of various new physical phenomena as for example expansion shocks sonic shocks shock splitting evaporation and liquafaction shocks and the experimental techniques needed to study these phenomena Second an attempt is made to discuss aspects of their mathematical modeling with special emphasis on properties which these phenomena have in common

Nonlinear Elastic Waves in Materials Jeremiah J. Rushchitsky, 2014-04-23 The main goal of the book is a coherent treatment of the theory of propagation in materials of nonlinearly elastic waves of displacements which corresponds to one modern line of development of the nonlinear theory of elastic waves The book is divided on five basic parts the necessary information on waves and materials the necessary information on nonlinear theory of elasticity and elastic materials analysis of one dimensional nonlinear elastic waves of displacement longitudinal vertically and horizontally polarized transverse plane nonlinear elastic waves of displacement analysis of one dimensional nonlinear elastic waves of displacement cylindrical and torsional nonlinear elastic waves of displacement analysis of two dimensional nonlinear elastic waves of displacement Rayleigh and Love nonlinear elastic surface waves The book is addressed first of all to people working in solid mechanics from the students at an advanced undergraduate and graduate level to the scientists professionally interesting in waves But mechanics is understood in the broad sense when it includes mechanical and other engineering material science applied mathematics and physics and so forth The genesis of this book can be found in author's years of research and teaching while a head of department at SP Timoshenko Institute of Mechanics National Academy of Sciences of Ukraine a member of Center for Micro and

Nanomechanics at Engineering School of University of Aberdeen Scotland and a professor at Physical Mathematical Faculty of National Technical University of Ukraine KPI The book comprises 11 chapters Each chapter is complemented by exercises which can be used for the next development of the theory of nonlinear waves *Nonlinear Partial Differential Equations for Scientists and Engineers* Lokenath Debnath, 2013-11-11 An exceptionally complete overview There are numerous examples and the emphasis is on applications to almost all areas of science and engineering There is truly something for everyone here This reviewer feels that it is a very hard act to follow and recommends it strongly This book is a jewel Applied Mechanics Review Review of First Edition This expanded and revised second edition is a comprehensive and systematic treatment of linear and nonlinear partial differential equations and their varied applications Building upon the successful material of the first book this edition contains updated modern examples and applications from areas of fluid dynamics gas dynamics plasma physics nonlinear dynamics quantum mechanics nonlinear optics acoustics and wave propagation Methods and properties of solutions are presented along with their physical significance making the book more useful for a diverse readership

Amplification Of Nonlinear Strain Waves In Solids Alexey V Porubov, 2003-07-07 This book treats two problems simultaneously sequential analytical consideration of nonlinear strain wave amplification and selection in wave guides and in a medium demonstration of the use of even particular analytical solutions to nonintegrable equations in a design of numerical simulation of unsteady nonlinear wave processes The text includes numerous detailed examples of the strain wave amplification and selection caused by the influence of an external medium microstructure moving point defects and thermal phenomena The main features of the book are 1 nonlinear models of the strain wave evolution in a rod subjected by various dissipative active factors 2 an analytical numerical approach for solutions to the governing nonlinear partial differential equations with dispersion and dissipation This book is essential for introducing readers in mechanics mechanical engineering and applied mathematics to the concept of long nonlinear strain wave in one dimensional wave guides It is also suitable for self study by professionals in all areas of nonlinear physics *Shock Waves and Reaction—Diffusion Equations* Joel Smoller, 2012-12-06 For this edition a number of typographical errors and minor slip ups have been corrected In addition following the persistent encouragement of Olga Oleinik I have added a new chapter Chapter 25 which I titled Recent Results This chapter is divided into four sections and in these I have discussed what I consider to be some of the important developments which have come about since the writing of the first edition Section I deals with reaction diffusion equations and in it are described both the work of C Jones on the stability of the travelling wave for the Fitz Hugh Nagumo equations and symmetry breaking bifurcations Section II deals with some recent results in shock wave theory The main topics considered are L Tartar's notion of compensated compactness together with its application to pairs of conservation laws and T P Liu's work on the stability of viscous profiles for shock waves In the next section Conley's connection index and connection matrix are described these general notions are useful in constructing travelling waves for systems of nonlinear

equations The final section Section IV is devoted to the very recent results of C Jones and R Gardner whereby they construct a general theory enabling them to locate the point spectrum of a wide class of linear operators which arise in stability problems for travelling waves Their theory is general enough to be applicable to many interesting reaction diffusion systems

Nonlinear PDE's in Condensed Matter and Reactive Flows Henri Berestycki, Yves Pomeau, 2012-12-06 Nonlinear partial differential equations abound in modern physics The problems arising in these fields lead to fascinating questions and at the same time progress in understanding the mathematical structures is of great importance to the models Nevertheless activity in one of the approaches is not always sufficiently in touch with developments in the other field The book presents the joint efforts of mathematicians and physicists involved in modelling reactive flows in particular superconductivity and superfluidity Certain contributions are fundamental to an understanding of such cutting edge research topics as rotating Bose Einstein condensates Kolmogorov Zakharov solutions for weak turbulence equations and the propagation of fronts in heterogeneous media

Fractional Diffusion and Wave Equations Yong Zhou, 2024-11-05 This monograph delves into the theory of time fractional diffusion and wave equations presenting a comprehensive exploration of recent advancements in the field Key topics include well posedness regularity and approximate controllability of Cauchy problems as well as the existence and regularity of terminal value problems Detailed examples illustrate the applications of these equations demonstrating their practical relevance The content is rooted in research conducted by the author and other experts over the past five years offering a thorough foundation for further study This work is an invaluable resource for researchers graduate students and PhD candidates in the fields of differential equations applied analysis and related areas

Nonlinear Waves & Hamiltonian Systems Ricardo Carretero-González, Dimitrios J. Frantzeskakis, Panayotis G. Kevrekidis, 2025-01-28 Nonlinear waves are of significant scientific interest across many diverse contexts ranging from mathematics and physics to engineering biosciences chemistry and finance The study of nonlinear waves is relevant to Bose Einstein condensates the interaction of electromagnetic waves with matter optical fibers and waveguides acoustics water waves atmospheric and planetary scales and even galaxy formation The aim of this book is to provide a self contained introduction to the continuously developing field of nonlinear waves that offers the background the basic ideas and mathematical as well as computational methods while also presenting an overview of associated physical applications Originated from the authors own research activity in the field for almost three decades and shaped over many years of teaching on relevant courses the primary purpose of this book is to serve as a textbook However the selection and exposition of the material will be useful to anyone who is curious to explore the fascinating world of nonlinear waves

Hyperbolic Problems: Contributed talks Eitan Tadmor, Jian-Guo Liu, Athanasios E. Tzavaras, 2009-12-15 The International Conference on Hyperbolic Problems Theory Numerics and Applications HYP2008 was held at the University of Maryland from June 9-13 2008 This was the twelfth meeting in the bi annual international series of HYP conferences which originated in 1986 at Saint Etienne France and over

the last twenty years has become one of the highest quality and most successful conference series in Applied Mathematics. This book, the second in a two part volume, contains more than sixty articles based on contributed talks given at the conference. The articles are written by leading researchers as well as promising young scientists and cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of hyperbolic PDEs. This volume will bring readers to the forefront of research in this most active and important area in applied mathematics.

Large Time Asymptotics for Solutions of Nonlinear Partial Differential Equations P.L. Sachdev, Ch. Srinivasa Rao, 2009-10-29. A large number of physical phenomena are modeled by nonlinear partial differential equations subject to appropriate initial boundary conditions; these equations in general do not admit exact solution. The present monograph gives constructive mathematical techniques which bring out large time behavior of solutions of these model equations. These approaches in conjunction with modern computational methods help solve physical problems in a satisfactory manner. The asymptotic methods dealt with here include self similarity, balancing argument and matched asymptotic expansions. The physical models discussed in some detail here relate to porous media equation, heat equation with absorption, generalized Fisher's equation, Burgers equation and its generalizations. A chapter each is devoted to nonlinear diffusion and fluid mechanics. The present book will be found useful by applied mathematicians, physicists, engineers and biologists and would considerably help understand diverse natural phenomena.

Math and Bio 2010 Lynn Arthur Steen, 2005. Math and bio 2010 grew out of Meeting the Challenges: Education across the Biological, Mathematical and Computer Sciences, a joint project of the Mathematical Association of America (MAA), the National Science Foundation Division of Undergraduate Education, NSF DUE, the National Institute of General Medical Sciences (NIGMS), the American Association for the Advancement of Science (AAAS) and the American Society for Microbiology (ASM). Foreword p vi.

Modern Modeling of Continuum Phenomena Richard C. DiPrima, 1977-12-31.

Linear Fractional Diffusion-Wave Equation for Scientists and Engineers Yuriy Povstenko, 2015-07-03. This book systematically presents solutions to the linear time fractional diffusion wave equation. It introduces the integral transform technique and discusses the properties of the Mittag Leffler, Wright and Mainardi functions that appear in the solutions. The time nonlocal dependence between the flux and the gradient of the transported quantity with the long tail power kernel results in the time fractional diffusion wave equation with the Caputo fractional derivative. Time nonlocal generalizations of classical Fourier's, Fick's and Darcy's laws are considered and different kinds of boundary conditions for this equation are discussed: Dirichlet, Neumann, Robin, perfect contact. The book provides solutions to the fractional diffusion wave equation with one, two and three space variables in Cartesian, cylindrical and spherical coordinates. The respective sections of the book can be used for university courses on fractional calculus, heat and mass transfer, transport processes in porous media and fractals for graduate and postgraduate students. The volume will also serve as a valuable reference guide for specialists working in applied mathematics, physics, geophysics and the engineering.

sciences

Traveling Wave Solutions of Parabolic Systems A. I. Volpert, Vitaly A. Volpert, Vladimir A. Volpert, The theory of travelling waves described by parabolic equations and systems is a rapidly developing branch of modern mathematics This book presents a general picture of current results about wave solutions of parabolic systems their existence stability and bifurcations With introductory material accessible to non mathematicians and a nearly complete bibliography of about 500 references this book is an excellent resource on the subject *Hyperbolic Problems: Theory, Numerics And Applications (In 2 Volumes)* Tatsien Li, Song Jiang, 2012-09-28 This two volume book is devoted to mathematical theory numerics and applications of hyperbolic problems Hyperbolic problems have not only a long history but also extremely rich physical background The development is highly stimulated by their applications to Physics Biology and Engineering Sciences in particular by the design of effective numerical algorithms Due to recent rapid development of computers more and more scientists use hyperbolic partial differential equations and related evolutionary equations as basic tools when proposing new mathematical models of various phenomena and related numerical algorithms This book contains 80 original research and review papers which are written by leading researchers and promising young scientists which cover a diverse range of multi disciplinary topics addressing theoretical modeling and computational issues arising under the umbrella of Hyperbolic Partial Differential Equations It is aimed at mathematicians researchers in applied sciences and graduate students

Oscillations and Waves Fritz K. Kneubühl, 2013-03-09 In the course of over thirty years of research in various fields of physics and teaching experimental physics to undergraduate and graduate students of physics mathematics electrical engineering chemistry and natural sciences I missed an introductory comprehensive book on the mathematics of linear and nonlinear oscillations and waves from the point of view of physicists and engineers Oscillations and waves are the playground for all kinds of scientists in spite of the fact that they represent essentially mathematical concepts In this field however the interests of experimentalists and engineers on one side and mathematicians on the other side usually differ The latter are most interested and engaged in proofs of general fundamental laws on the existence and behavior of the solutions of basic differential equations and on the convergence of their approximations whereas the former need explicit analytical and numerical solutions or approximations computer programs and graphic displays In the past decades a gap opened between these two groups with the result that they have difficulties in communicating with each other This comprehensive book represents a novel attempt to bridge this gap This book is based on my lecture notes and its predecessor *Lineare und nichtlineare Schwingungen und Wellen* published by B G Teubner Stuttgart FRG in 1995 The contents of the previous book have been considerably extended revised and improved thanks to advice from colleagues and co workers Additions to be mentioned are the first classification of two dimensional autonomous i e

Dynamics of Internal Layers and Diffusive Interfaces Paul C. Fife, 1988-01-01 A good introduction to interfacial phenomena and is unique in its treatment of flames as well as internal layer dynamics

Reviewing **Nonlinear Diffusive Waves**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Nonlinear Diffusive Waves**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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