Nonlinear diffusive waves

P. L. Sachdev

Nonlinear Diffusive Waves

P.L. Sachdev,Ch. Srinivasa Rao

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,2004-07-23 This monograph has grown out of research we started in 1987 although the foun dations were laid in the 1970 s 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 Univer sity 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 demonstra tions 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 nonlin ear 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,2012-12-06 This monograph has grown out of research we started in 1987 although the foun dations were laid in the 1970 s 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 Univer sity 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 demonstra tions 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 nonlin ear 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 **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 con structing travelling waves for systems of nonlinear equations The final sec tion 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 applica ble to many interesting reaction diffusion systems **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 **Reaction-diffusion Waves** Arnaud Ducrot,Martine Marion,Vitaly Volpert,2009 Analysis of Model Equations for Lucassen Waves and Other Nonlinear Fractional Diffusive Waves Blake Elliott Simon,2020 This thesis investigates the nature of fractional waves i e physical processes that are described by a fractional derivative Fractional

calculus is an extension of traditional calculus to include integrals and derivatives of non integer order In fractional wave models the fractional derivative is used to model attenuation and dispersion during waveform propagation Fractional wave equations interpolate between the diffusion heat equation and the conventional wave equation A specific physical example of a fractional wave is the Lucassen wave Lucassen waves are longitudinal disturbances that propagate along an elastic layer coupled to a fluid half space and are modeled by a fractional wave equation with a fractional time derivative The equation describing the propagation of linear Lucassen waves is derived in this work Nonlinear Lucassen waves were first described by Kappler et al J Kappler S Shrivastava M F Schneider and R R Netz Nonlinear fractional waves at elastic interfaces Phys Rev Fluids 2 114804 2017 and have been connected to the mechanical wave that accompanies the electric action potential during nerve pulse propagation Two evolution equations for progressive nonlinear Lucassen waves are derived in the present work from the equation of Kappler et al These evolution equations are of reduced differential order and are thus easier to solve numerically The evolution equations are also used to obtain additional physical insight An alternate evolution equation for nonlinear Lucassen waves that accounts for viscosity in the interface is derived as well This evolution equation is more accurate for propagation along interfaces with viscosity that is significant compared with that of the liquid half space to which it is coupled The possibility of vertical tangent shock formation is explored for general fractional wave evolution equations The evolution equations derived in this work are transformed into the intrinsic coordinates originally introduced by Hammerton and Cirghton P W Hammerton and D G Crighton Overturning of nonlinear acoustic waves Part 1 A general method J Fluid Mech 252 585 599 1993 in order to analyze the propagation of nonlinear waveforms with large gradients approximating shock fronts It is shown that the evolution equation that accounts for viscosity in the interface is the most stable for numerical calculations of the propagation of these nonlinear waveforms with large gradients **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 *Travelling Waves in Nonlinear Diffusion-convection-reation* B. H. Gilding,R. Kersner,2001 **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 in One-dimensional Dispersive Systems P. L. Bhatnagar,1979   **Matched Asymptotic Expansions in Reaction-Diffusion Theory** J.A. Leach,D.J. Needham,2012-12-06 This volume contains a wealth of results and methodologies applicable to a wide range of problems arising in reaction diffusion theory It can be viewed both as a handbook and as a detailed description of the methodology The authors present new methods based on matched asymptotic expansions   **Nonlinear Diffusion with Traveling Waves and Numerical Solutions** David Paul Young,1979   **Waves in reaction-diffusion** Joop Pauwelussen,1981   *Topical Problems of Nonlinear Wave Physics* Alexander M. Sergeev,2006 Includes Proceedings Vol 7821   **Journal of the Physical Society of Japan** Nihon Butsuri Gakkai,1991   **Journal of the Optical Society of America** ,1990   Plasma Physics and Controlled Fusion ,1985   *Nonlinear Stability of Shock Waves for Viscous Conservation Laws* Tai-Ping Liu,1985 In this paper we establish the nonlinear stability of shock waves for viscous conservation laws It is shown that when the initial data is a perturbation of viscous shock waves then the solution converges to viscous shock waves properly translated as time tends to infinity   **Bulletin of the American Mathematical Society** ,1985

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web logistic regression also called a logit model is used to model dichotomous outcome variables in the logit model the log odds of the outcome is modeled as a linear combination of the predictor variables please note the purpose of this page is to show how to use various data analysis commands

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web figure 11 14 logistic regression model dialog model tab figure 11 14 displays the model dialog with the terms age ecg sex and their interactions selected as effects in the model note that you can build specific models with the add cross and factorial buttons or you can select a model by clicking on the standard models button and making a

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