

# Nonlinear Evolution Equations

Boling GUO, Fei CHEN, Jing SHAO and Ting LUO



# Nonlinear Evolution Equations That Chang

**Yi Cheng**



## **Nonlinear Evolution Equations That Change Type**

Nonlinear Evolution Equations That Change Type Barbara L. Keyfitz, Michael Shearer, 2012-12-06 This IMA Volume in Mathematics and its Applications NONLINEAR EVOLUTION EQUATIONS THAT CHANGE TYPE is based on the proceedings of a workshop which was an integral part of the 1988-89 IMA program on NONLINEAR WAVES The workshop focussed on problems of ill posedness and change of type which arise in modeling flows in porous materials viscoelastic fluids and solids and phase changes We thank the Coordinating Committee James Glimm Daniel Joseph Barbara Lee Keyfitz Andrew Majda Alan Newell Peter Olver David Sattinger and David Schaeffer for planning and implementing an exciting and stimulating year long program We especially thank the workshop organizers Barbara Lee Keyfitz and Michael Shearer for their efforts in bringing together many of the major figures in those research fields in which theories for nonlinear evolution equations that change type are being developed A vner Friedman Willard Miller Jr ix PREFACE During the winter and spring quarters of the 1988-89 IMA Program on Non linear Waves the issue of change of type in nonlinear partial differential equations appeared frequently Discussion began with the January 1989 workshop on Two Phase Waves in Fluidized Beds Sedimentation and Granular Flow some of the papers in the proceedings of that workshop present strategies designed to avoid the appearance of change of type in models for multiphase fluid flow

**Nonlinear Evolution Equations** Boling Guo, Fei Chen, Jing Shao, Ting Luo, 2019-11-05 Nonlinear Evolution Equation presents state of the art theories and results on nonlinear evolution equation showing related mathematical methods and applications The basic concepts and research methods of infinite dimensional dynamical systems are discussed in detail The unique combination of mathematical rigor and physical background makes this work an essential reference for researchers and students in applied mathematics and physics

Advances in Nonlinear Evolution Equations Mohamed Jleli, Bessem Samet, Calogero Vetrotti, 2025-10-03 This book presents a collection of significant and original contributions that delve into the realm of nonlinear evolution equations and their applications encompassing both theory and practical usage Serving as a dynamic platform for interdisciplinary collaboration it facilitates the exchange of innovative ideas among scientists from diverse fields who share a keen interest in the intricate world of evolution equations The book bridges the gap between theory and practicality offering valuable insights for researchers and enthusiasts alike transcending disciplinary boundaries Evolution equations a subset of partial differential equations serve as mathematical tools to depict the temporal transformation of physical systems from their initial states These equations find widespread utility in modeling various real world phenomena across diverse disciplines Notable examples of nonlinear evolution equations include the heat equation which characterizes the evolution of heat distribution over time the nonlinear Schrödinger equation instrumental in understanding data transmission in fiber optic communication systems the Korteweg de Vries equation illuminating the dynamics of surface water waves and the portrayal of ion acoustic waves in cold plasma

*Finite Difference Methods for Nonlinear Evolution Equations* Zhi-Zhong Sun, Qifeng

Zhang,Guang-hua Gao,2023-05-08 Nonlinear evolution equations are widely used to describe nonlinear phenomena in natural and social sciences However they are usually quite difficult to solve in most instances This book introduces the finite difference methods for solving nonlinear evolution equations The main numerical analysis tool is the energy method This book covers the difference methods for the initial boundary value problems of twelve nonlinear partial differential equations They are Fisher equation Burgers equation regularized long wave equation Korteweg de Vries equation Camassa Holm equation Schrödinger equation Kuramoto Tsuzuki equation Zakharov equation Ginzburg Landau equation Cahn Hilliard equation epitaxial growth model and phase field crystal model This book is a monograph for the graduate students and science researchers majoring in computational mathematics and applied mathematics It will be also useful to all researchers in related disciplines Nonlinear Evolution Equations and Dynamical Systems Yi Cheng,2003

Fast paced economic growth in Southeast Asia from the late 1960s until the mid 1990s brought increased attention to the overseas Chinese as an economically successful diaspora and their role in this economic growth Events that followed such as the transfer of Hong Kong and Macau to the People's Republic of China the election of a non KMT government in Taiwan the Asian economic crisis and the plight of overseas Chinese in Indonesia as a result and the durability of the Singapore economy during this same crisis have helped to sustain this attention The study of the overseas Chinese has by now become a global enterprise raising new theoretical problems and empirical challenges New case studies of overseas Chinese such as those on communities in North America Cuba India and South Africa continually unveil different perspectives New kinds of transnational connectivities linking Chinese communities are also being identified It is now possible to make broader generalizations of a Chinese diaspora on a global basis Further the intensifying study of the overseas Chinese has stimulated renewed intellectual vigor in other areas of research The transnational and transregional activities of overseas Chinese for example pose serious challenges to analytical concepts of regional divides such as that between East and Southeast Asia Despite the increased attention new data and the changing theoretical paradigms basic questions concerning the overseas Chinese remain The papers in this volume seek to understand the overseas Chinese migrants not just in terms of the overall Chinese diaspora per se but also local Chinese migrants adapting to local societies in different national contexts **Finite**

**Difference Methods for Nonlinear Evolution Equations** Zhi-Zhong Sun,Qifeng Zhang,Guang-hua Gao,2023-05-08 Nonlinear evolution equations are widely used to describe nonlinear phenomena in natural and social sciences However they are usually quite difficult to solve in most instances This book introduces the finite difference methods for solving nonlinear evolution equations The main numerical analysis tool is the energy method This book covers the difference methods for the initial boundary value problems of twelve nonlinear partial differential equations They are Fisher equation Burgers equation regularized long wave equation Korteweg de Vries equation Camassa Holm equation Schrödinger equation Kuramoto Tsuzuki equation Zakharov equation Ginzburg Landau equation Cahn Hilliard equation epitaxial growth model and phase field crystal

model This book is a monograph for the graduate students and science researchers majoring in computational mathematics and applied mathematics It will be also useful to all researchers in related disciplines

**Rheology for Polymer Melt Processing** J.-M. Piau,J.-F. Agassant,1996-10-10 This book presents the main results obtained by different laboratories involved in the research group Rheology for polymer melt processing which is associated with French universities schools of engineering and the CNRS Centre National de la Recherche Scientifique France The group comprises some 15 research laboratories of varied disciplines chemistry physics material sciences mechanics mathematics but with a common challenge viz to enhance the understanding of the relationships between macromolecular species their rheology and their processing Some crucial issues of polymer science have been addressed correlation of viscoelastic macroscopic bulk property measurements and models slip at the wall extrusion defects correlation between numerical flow simulations and experiments Features of the book The book is unique in that it allows one to grasp the key issues in polymer rheology and processing at once through a series of detailed state of the art contributions which were previously scattered throughout the literature Each paper was reviewed by experts and the book editors and some coordination was established in order to achieve a readable and easy access style Papers have been grouped in sections covering successively Molecular dynamics Constitutive equations and numerical modelling Simple and complex flows Each paper can be read independently Since the book is intended as an introduction to the main topics in polymer processing it will be of interest to graduate students as well as to scientists in academic and industrial laboratories

*High Performance Networking, Computing, and Communication Systems* Yanwen Wu,2011-11-02 This book constitutes the refereed post proceedings of the Second International Conference on High Performance Networking Computing and Communication systems ICHCC 2011 held in Singapore in May 2011 The conference was held together with the Second International Conference on Theoretical and Mathematical Foundations of Computer Science ICTMF 2011 which proceedings are published in CCIS 164 The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book The topics covered range from computational science engineering and technology to digital signal processing and computational biology to game theory and other related topics

*Handbook of Differential Equations* Daniel Zwillinger,1998 This book compiles the most widely applicable methods for solving and approximating differential equations as well as numerous examples showing the methods use Topics include ordinary differential equations symplectic integration of differential equations and the use of wavelets when numerically solving differential equations For nearly every technique the book provides The types of equations to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users References to the literature for more discussion or more examples including pointers to electronic resources such as URLs

*Delay Differential Evolutions Subjected to Nonlocal Initial Conditions* Monica-Dana Burlică,Mihai Necula,Daniela Roşu,Ioan I. Vrabie,2018-09-03 Filling a gap in the

literature Delay Differential Evolutions Subjected to Nonlocal Initial Conditions reveals important results on ordinary differential equations ODEs and partial differential equations PDEs It presents very recent results relating to the existence boundedness regularity and asymptotic behavior of global solutions for differential equations and inclusions with or without delay subjected to nonlocal implicit initial conditions After preliminaries on nonlinear evolution equations governed by dissipative operators the book gives a thorough study of the existence uniqueness and asymptotic behavior of global bounded solutions for differential equations with delay and local initial conditions It then focuses on two important nonlocal cases autonomous and quasi autonomous The authors next discuss sufficient conditions for the existence of almost periodic solutions describe evolution systems with delay and nonlocal initial conditions examine delay evolution inclusions and extend some results to the multivalued case of reaction diffusion systems The book concludes with results on viability for nonlocal evolution inclusions

**Vector Variational Inequalities and Vector Optimization** Qamrul Hasan Ansari, Elisabeth Köbis, Jen-Chih Yao, 2017-10-31 This book presents the mathematical theory of vector variational inequalities and their relations with vector optimization problems It is the first ever book to introduce well posedness and sensitivity analysis for vector equilibrium problems The first chapter provides basic notations and results from the areas of convex analysis functional analysis set valued analysis and fixed point theory for set valued maps as well as a brief introduction to variational inequalities and equilibrium problems Chapter 2 presents an overview of analysis over cones including continuity and convexity of vector valued functions The book then shifts its focus to solution concepts and classical methods in vector optimization It describes the formulation of vector variational inequalities and their applications to vector optimization followed by separate chapters on linear scalarization nonsmooth and generalized vector variational inequalities Lastly the book introduces readers to vector equilibrium problems and generalized vector equilibrium problems Written in an illustrative and reader friendly way the book offers a valuable resource for all researchers whose work involves optimization and vector optimization

*Mathematical Physics II* Enrico De Micheli, 2020-12-15 The charm of Mathematical Physics resides in the conceptual difficulty of understanding why the language of Mathematics is so appropriate to formulate the laws of Physics and to make precise predictions Citing Eugene Wigner this unreasonable appropriateness of Mathematics in the Natural Sciences emerged soon at the beginning of the scientific thought and was splendidly depicted by the words of Galileo The grand book the Universe is written in the language of Mathematics In this marriage what Bertrand Russell called the supreme beauty cold and austere of Mathematics complements the supreme beauty warm and engaging of Physics This book which consists of nine articles gives a flavor of these beauties and covers an ample range of mathematical subjects that play a relevant role in the study of physics and engineering This range includes the study of free probability measures associated with  $p$  adic number fields non commutative measures of quantum discord non linear Schrödinger equation analysis spectral operators related to holomorphic extensions of series expansions Gibbs phenomenon deformed wave equation

analysis and optimization methods in the numerical study of material properties      *Nonlinear Systems and Their Remarkable Mathematical Structures* Norbert Euler, Da-jun Zhang, 2021-09-06 The third volume in this sequence of books consists of a collection of contributions that aims to describe the recent progress in nonlinear differential equations and nonlinear dynamical systems both continuous and discrete *Nonlinear Systems and Their Remarkable Mathematical Structures Volume 3 Contributions from China* just like the first two volumes consists of contributions by world leading experts in the subject of nonlinear systems but in this instance only featuring contributions by leading Chinese scientists who also work in China in some cases in collaboration with western scientists Features Clearly illustrate the mathematical theories of nonlinear systems and its progress to both the non expert and active researchers in this area Suitable for graduate students in Mathematics Applied Mathematics and some of the Engineering Sciences Written in a careful pedagogical manner by those experts who have been involved in the research themselves and each contribution is reasonably self contained      **Mathematical Modeling And Simulation In Hydrodynamic Stability** Daniel N Riahi, 1996-02-29 Hydrodynamic stability is of fundamental importance in the mechanics of fluids and is mainly concerned with the problem of the transition to turbulence This book is devoted to publication of original research papers research expository and survey articles with an emphasis on unsolved problems and open questions in the mathematical modeling and computational aspects of hydrodynamic stability Review chapters on the mathematical modeling and numerical simulation aspects of hydrodynamic stability the physical background and the limitations of the modeling and simulation procedures due to particular mathematical or computational methods used are included This book will be appropriate for use in research and in research related courses on the subject It includes chapters on bifurcations in fluid systems flow patterns channel flows non parallel shear flows thin film flows strong viscous shear flows Gortler vortices bifurcations in convection wavy film flows and boundary layers      *Harmonic Analysis Methods in Partial Differential Equations* Changxing Miao, Bo Zhang, Jiqiang Zheng, 2025-06-02 This volume applies theories of harmonic analysis to the study of nonlinear partial differential equations It covers consolidation characterizations of differentiable function spaces and the theory of three generations of  $C^\infty$  singular integral operators Fourier restriction estimation Strichartz estimation and Littlewood Paley theory It combines harmonic analysis methods with the study of partial differential equations      Information Computing and Applications, Part I Rongbo Zhu, Yanchun Zhang, Baoxiang Liu, Chunfeng Liu, 2010-10-06      **Proceedings of The Eighth International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA), 2013** Zhixiang Yin, Linqiang Pan, Xianwen Fang, 2013-10-22 International Conference on Bio Inspired Computing Theories and Applications BIC TA is one of the flagship conferences on Bio Computing bringing together the world's leading scientists from different areas of Natural Computing Since 2006 the conferences have taken place at Wuhan 2006 Zhengzhou 2007 Adelaide 2008 Beijing 2009 Liverpool Changsha 2010 Malaysia 2011 and India 2012 Following the successes of previous events the 8th conference is organized

and hosted by Anhui University of Science and Technology in China This conference aims to provide a high level international forum that researchers with different backgrounds and who are working in the related areas can use to present their latest results and exchange ideas Additionally the growing trend in Emergent Systems has resulted in the inclusion of two other closely related fields in the BIC TA 2013 event namely Complex Systems and Computational Neuroscience These proceedings are intended for researchers in the fields of Membrane Computing Evolutionary Computing and Genetic Algorithms DNA and Molecular Computing Biological Computing Swarm Intelligence Autonomy Oriented Computing Cellular and Molecular Automata Complex Systems etc Professor Zhixiang Yin is the Dean of the School of Science Anhui University of Science Technology China Professor Linqiang Pan is the head of the research group of Natural Computing at Huazhong University of Science and Technology Wuhan China Professor Xianwen Fang also works at the Anhui University of Science Technology

**Nonlinear Evolutionary Partial Differential Equations** Xiayi Ding,Tai-Ping Liu,1997 This volume contains the proceedings from the International Conference on Nonlinear Evolutionary Partial Differential Equations held in Beijing in June 1993 The topic for the conference was selected because of its importance in the natural sciences and for its mathematical significance Discussion topics include conservation laws dispersion waves Einstein s theory of gravitation reaction diffusion equations the Navier Stokes equations and more New results were presented and are featured in this volume Titles in this series are co published with International Press Cambridge MA **Exact Solutions and Invariant**

**Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics** Victor A. Galaktionov,Sergey R. Svirshchevskii,2006-11-02 Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics is the first book to provide a systematic construction of exact solutions via linear invariant subspaces for nonlinear differential operators Acting as a guide to nonlinear evolution equations and models from physics and mechanics the book

**Fractional Difference, Differential Equations, and Inclusions** Saïd Abbas,Bashir Ahmad,Mouffak Benchohra,Abdelkrim Salim,2024-01-11 The field of fractional calculus FC is more than 300 years old and it presumably stemmed from a question about a fractional order derivative raised in communication between L Hopital and Leibniz in the year 1695 This branch of mathematical analysis is regarded as the generalization of classical calculus as it deals with the derivative and integral operators of fractional order The tools of fractional calculus are found to be of great utility in improving the mathematical modeling of many natural phenomena and processes occurring in the areas of engineering social natural and biomedical sciences Fractional Difference Differential Equations and Inclusions Analysis and Stability is devoted to the existence and stability Ulam Hyers Rassias stability and asymptotic stability of solutions for several classes of functional fractional difference equations and inclusions Some equations include delay effects of finite infinite or state dependent nature Others are subject to impulsive effect which may be fixed or non instantaneous The tools used to establish the existence results for the proposed problems include fixed point theorems densifiability techniques monotone iterative

technique notions of Ulam stability attractivity and the measure of non compactness as well as the measure of weak noncompactness All the abstract results are illustrated by examples in applied mathematics engineering biomedical and other applied sciences Introduces notation definitions and foundational concepts of fractional  $q$  calculus Presents existence and attractivity results for a class of implicit fractional  $q$  difference equations in Banach and Fréchet spaces Focuses on the study of a class of coupled systems of Hilfer and Hilfer Hadamard fractional differential equations

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