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Nonlinear Evolution Equations

Behzad Djafari Rouhani



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Lectures on Nonlinear Evolution Equations Reinhard Racke, 2015-08-31 This book mainly serves as an elementary self contained introduction to several important aspects of the theory of global solutions to initial value problems for nonlinear evolution equations The book employs the classical method of continuation of local solutions with the help of a priori estimates obtained for small data The existence and uniqueness of small smooth solutions that are defined for all values of the time parameter are investigated Moreover the asymptotic behaviour of the solutions is described as time tends to infinity The methods for nonlinear wave equations are discussed in detail Other examples include the equations of elasticity heat equations the equations of thermoelasticity Schrödinger equations Klein Gordon equations Maxwell equations and plate equations To emphasize the importance of studying the conditions under which small data problems offer global solutions some blow up results are briefly described Moreover the prospects for corresponding initial boundary value problems and for open questions are provided In this second edition initial boundary value problems in waveguides are additionally considered

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 - Global Behavior of Solutions Alain Haraux, 2006-11-15 [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 J r 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 Songmu Zheng, 2004-07-08 Nonlinear evolution equations arise in many fields of sciences including physics mechanics and material science This book introduces some important methods for dealing with these equations and explains clearly and concisely a wide range of relevant theories and techniques These include the semigroup method the compactness and monotone operator methods the monotone iterative method and invariant regions the global existence and uniqueness theory for small initial data and the asymptotic behavior of solutions and global attractors Many of the results are published in book form for the first time Bibliographic comments in each chapter provide the reader with references and further reading materials to enable further research and study *Nonlinear Evolution Equations And Painleve Test* N Euler, Willi-hans Steeb, 1988-10-01 This book is an edited version of lectures given by the authors at a seminar at the Rand Afrikaans University It gives a survey on the Painlevé test Painlevé property and integrability Both ordinary differential equations and partial differential equations are considered *Dirac Structures and Integrability of Nonlinear Evolution Equations* Irene Dorfman, 1993-06-22 An introduction to the area for non specialists with an original approach to the mathematical basis of one of the hottest research topics in nonlinear science Deals with specific aspects of Hamiltonian theory of systems with finite or infinite dimensional phase spaces Emphasizes systems which occur in soliton theory Outlines current work in the Hamiltonian theory of evolution equations **Nonlinear Evolution Equations and Dynamical Systems** Sandra Carillo, Orlando Ragnisco, 2012-12-06 Nonlinear Evolution Equations and Dynamical Systems NEEDS provides a presentation of the state of the art Except for a few review papers the 40 contributions are intentionally brief to give only the gist of the methods proofs etc including references to the relevant literature This gives a handy overview of current research activities Hence the book should be equally useful to the senior researcher as well as the colleague just entering the field Keypoints treated are i integrable systems in multidimensions and associated phenomenology dromions ii criteria and tests of integrability e g Painlevé test iii new developments related to the scattering transform iv algebraic approaches to integrable systems and Hamiltonian theory e g connections with Young Baxter equations and Kac Moody algebras v new developments in mappings and cellular automata vi applications to general relativity condensed matter

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Nonlinear Evolution Equations And Their Applications - Proceedings Of The Luso-chinese Symposium Tatsien Li, Long-wei Ling, Jose Francisco Rodriques, 1999-08-31 This book discusses recent trends and developments in the area of nonlinear evolution equations It is a collection of invited lectures on the following topics nonlinear parabolic equations systems nonlinear hyperbolic systems free boundary problems conservation laws and shock waves travelling and solitary waves regularity stability and singularity etc **Nonlinear Evolution and Difference Equations of Monotone Type in Hilbert Spaces** Behzad Djafari Rouhani, 2019-05-20 This book is devoted to the study of non linear evolution and difference equations of first or second order governed by maximal monotone operator This class of abstract evolution equations contains ordinary differential equations as well as the unification of some important partial differential equations including heat equation wave equation Schrodinger equation etc The book contains a collection of the authors work and applications in this field as well as those of other authors **Nonlinear Evolution Equations and Applications** Gheorghe Morosanu, 1988-08-31

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Nonlinear Evolution Equations and Potential Theory J. Kral, 1975-04-01 Measure Theory and Nonlinear Evolution Equations Flavia Smarrazzo, Alberto Tesei, 2022-04-19 This text on measure theory with applications to partial differential equations covers general measure theory Lebesgue spaces of real valued and vector valued functions different notions of measurability for the latter weak convergence of functions and measures Radon and Young measures capacity A comprehensive discussion of applications to quasilinear parabolic and hyperbolic problems is provided

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