

Lecture Notes in Physics

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Invariant Wave Equations

Proceedings of the "Ettore Majorana"
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Invariant Wave Equations Proc

Joel Smoller



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Nonlinear Wave Equations Yan Guo, 2000 This volume presents original research papers and expository articles from the conference in honour of Walter A Strauss's 60th birthday held at Brown University in Providence Rhode Island The book offers a collection of original papers and expository articles mainly devoted to the study of nonlinear wave equations The articles cover a wide range of topics including scattering theory dispersive waves classical field theory mathematical fluid dynamics kinetic theory stability theory and variational methods The book offers a cross section of current trends and research directions in the study of nonlinear wave equations and related topics

Semilinear Schrodinger Equations

Thierry Cazenave, 2003 The nonlinear Schrodinger equation has received a great deal of attention from mathematicians particularly because of its applications to nonlinear optics This book presents various mathematical aspects of the nonlinear Schrodinger equation It studies both problems of local nature and problems of global nature

Analytical Methods in

Differential Equations Sergey V. Meleshko, Sibusiso Moyo, Eckart Schulz, 2025-02-17 The book compiles papers presented at the International Conference Advances in Applications of Analytical Methods in Solving Differential Equations held in honour of Academician Lev V Ovsiannikov's 105th birthday anniversary This collection reflects his extensive contributions to the theory of differential equations modelling and the application of analytical methods In addition to classical methods such as analytical integration of systems of equations and their applications in various fields of Science and Engineering the book explores new areas of research This includes the application of group analysis to novel mathematical models and nonlinear problems particularly equations with nonlocal terms symmetries of difference and differential equations as well as fractional differential equations One of the notable contributions in the book is the development of a Hamiltonian approach for delay differential equations representing a novel area of research that has not been previously explored The book is anticipated to appeal to a broad audience of experts in applied mathematics fluid dynamics and modelling as well as to young scientists and graduate students interested in the analysis of nonlinear equations

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 focuses on the existence of new exact solutions on linear invariant subspaces for nonlinear operators and their crucial new properties This practical reference deals with various partial differential equations PDEs and models that exhibit some common nonlinear invariant features It begins with classical as well as more recent examples of solutions on invariant subspaces In the remainder of the book the authors develop several techniques for constructing exact solutions of various nonlinear PDEs including reaction diffusion and gas dynamics models thin film and Kuramoto Sivashinsky equations nonlinear dispersion compacton equations

KdV type and Harry Dym models quasilinear magma equations and Green Naghdi equations Using exact solutions they describe the evolution properties of blow up or extinction phenomena finite interface propagation and the oscillatory changing sign behavior of weak solutions near interfaces for nonlinear PDEs of various types and orders The techniques surveyed in Exact Solutions and Invariant Subspaces of Nonlinear Partial Differential Equations in Mechanics and Physics serve as a preliminary introduction to the general theory of nonlinear evolution PDEs of different orders and types

Shock Waves and Reaction—Diffusion Equations Joel Smoller, 2012-12-06 the progress of physics will to a large extent depend on the progress of nonlinear mathematics of methods to solve nonlinear equations and therefore we can learn by comparing different nonlinear problems WERNER HEISENBERG I undertook to write this book for two reasons First I wanted to make easily available the basics of both the theory of hyperbolic conservation laws and the theory of systems of reaction diffusion equations including the generalized Morse theory as developed by C Conley These important subjects seem difficult to learn since the results are scattered throughout the research journals 1 Second I feel that there is a need to present the modern methods and ideas in these fields to a wider audience than just mathematicians Thus the book has some rather sophisticated aspects to it as well as certain textbook aspects The latter serve to explain somewhat the reason that a book with the title Shock Waves and Reaction Diffusion Equations has the first nine chapters devoted to linear partial differential equations More precisely I have found from my classroom experience that it is far easier to grasp the subtleties of nonlinear partial differential equations after one has an understanding of the basic notions in the linear theory This book is divided into four main parts linear theory reaction diffusion equations shock wave theory and the Conley index in that order Thus the text begins with a discussion of ill posed problems

Nonlinear Wave Equations Walter A. Strauss, 1990-01-12 The theory of nonlinear wave equations in the absence of shocks began in the 1960s Despite a great deal of recent activity in this area some major issues remain unsolved such as sharp conditions for the global existence of solutions with arbitrary initial data and the global phase portrait in the presence of periodic solutions and traveling waves This book based on lectures presented by the author at George Mason University in January 1989 seeks to present the sharpest results to date in this area The author surveys the fundamental qualitative properties of the solutions of nonlinear wave equations in the absence of boundaries and shocks These properties include the existence and regularity of global solutions strong and weak singularities asymptotic properties scattering theory and stability of solitary waves Wave equations of hyperbolic Schrodinger and KdV type are discussed as well as the Yang Mills and the Vlasov Maxwell equations The book offers readers a broad overview of the field and an understanding of the most recent developments as well as the status of some important unsolved problems Intended for mathematicians and physicists interested in nonlinear waves this book would be suitable as the basis for an advanced graduate level course

Basic Theory Anatoly Kochubei, Yuri Luchko, 2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This

first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

Nonlinear Evolution Equations Michael G. Crandall, 2014-05-10 Nonlinear Evolution Equation covers the proceedings of the Symposium by the same title conducted by the Mathematics Research Center at the University of Wisconsin Madison on October 17 19 1977 This book is divided into 13 chapters and begins with reviews of the uniqueness of solution to systems of conservation laws and the computational aspects of Glimm's method The next chapters examine the theoretical and practical aspects of Boltzmann Navier Stokes and evolution equations These topics are followed by discussions of the practical applications of Trotter's product formula for some nonlinear semigroups and the finite time blow up in nonlinear problems The closing chapters deal with a Hamiltonian approach to the KdV and other equations along with a variational method for finding periodic solutions of differential equations This book will prove useful to mathematicians and engineers

Lectures on Nonlinear Hyperbolic Differential Equations Lars Hörmander, 1997-07-17 In this introductory textbook a revised and extended version of well known lectures by L. Hörmander from 1986 four chapters are devoted to weak solutions of systems of conservation laws Apart from that the book only studies classical solutions Two chapters concern the existence of global solutions or estimates of the lifespan for solutions of nonlinear perturbations of the wave or Klein Gordon equation with small initial data Four chapters are devoted to microanalysis of the singularities of the solutions This part assumes some familiarity with pseudodifferential operators which are standard in the theory of linear differential operators but the extension to the more exotic classes of operators needed in the nonlinear theory is presented in complete detail

Conformal Methods in General Relativity Juan A. Valiente Kroon, 2023-02-09 This 2016 volume now reissued as OA shows how conformal methods can be used to study Einstein's theory of gravity *The Progress and Present Status of Science in India* Hari K. Sen, 1963 This report gives an account of the progress and present status of science in India Its scope is in the main limited to developments of Indian science in plasma physics and geophysics It does not attempt to describe all universities and research institutions in India It does however give a fairly broad cross section of Indian scientific research in the aforementioned fields Author Classical And Quantum Systems: Foundations And Symmetries -

Proceedings Of The 2nd International Wigner Symposium Heinz-dietrich Doebner, F. Schroeck Jr, W. Scherer, 1993-01-19 The Wigner Symposium series is focussed on fundamental problems and new developments in physics and their experimental theoretical and mathematical aspects Particular emphasis is given to those topics which have developed from the work of Eugene P. Wigner The 2nd Wigner symposium is centered around notions of symmetry and geometry the foundations of quantum mechanics quantum optics and particle physics Other fields like dynamical systems neural networks and physics of information are also represented This volume brings together 19 plenary lectures which survey latest developments and more than 130 contributed research reports **Symmetry Analysis and Exact Solutions of Equations of Nonlinear**

Mathematical Physics W.I. Fushchich, W.M. Shtelen, N.I. Serov, 2013-03-14 by spin or spin $s = \frac{1}{2}$ field equations is emphasized because their solutions can be used for constructing solutions of other field equations insofar as fields with any spin may be constructed from spin $s = \frac{1}{2}$ fields A brief account of the main ideas of the book is presented in the Introduction The book is largely based on the authors works 55 109 176 189 13 16 7 14 23 24 carried out in the Institute of Mathematics Academy of Sciences of the Ukraine References to other sources is not intended to imply completeness As a rule only those works used directly are cited The authors wish to express their gratitude to Academician Yu A Mitropolsky and to Academician of Academy of Sciences of the Ukraine O S Parasyuk for basic support and stimulation over the course of many years to our coworkers in the Department of Applied Studies LA Egorchenko R Z Zhdanov A G Nikitin LV Revenko V L Lagno and I M Tsifra for assistance with the manuscript *New Tools for Nonlinear PDEs and Application* Marcello D'Abbicco, Marcelo Rempel Ebert, Vladimir Georgiev, Tohru Ozawa, 2019-05-07 This book features a collection of papers devoted to recent results in nonlinear partial differential equations and applications It presents an excellent source of information on the state of the art new methods and trends in this topic and related areas Most of the contributors presented their work during the sessions Recent progress in evolution equations and Nonlinear PDEs at the 12th ISAAC congress held in 2017 in V xj Sweden Even if inspired by this event this book is not merely a collection of proceedings but a stand alone project gathering original contributions from active researchers on the latest trends in nonlinear evolution PDEs **Nuclear Science Abstracts**, 1974 **The Dirac Equation** Bernd Thaller, 2013-12-01 Ever since its invention in 1929 the Dirac equation has played a fundamental role in various areas of modern physics and mathematics Its applications are so widespread that a description of all aspects cannot be done with sufficient depth within a single volume In this book the emphasis is on the role of the Dirac equation in the relativistic quantum mechanics of spin $\frac{1}{2}$ particles We cover the range from the description of a single free particle to the external field problem in quantum electrodynamics Relativistic quantum mechanics is the historical origin of the Dirac equation and has become a fixed part of the education of theoretical physicists There are some famous textbooks covering this area Since the appearance of these standard texts many books both physical and mathematical on the non relativistic Schrodinger equation have been published but only very few on the Dirac equation I wrote this book because I felt that a modern comprehensive presentation of Dirac's electron theory satisfying some basic requirements of mathematical rigor was still missing **General Principles of Quantum Field Theory** N.N. Bogolubov, Anatoly A. Logunov, A.I. Oksak, I. Todorov, 2012-12-06 The majority of the memorable results of relativistic quantum theory were obtained within the framework of the local quantum field approach The explanation of the basic principles of the local theory and its mathematical structure has left its mark on all modern activity in this area Originally the axiomatic approach arose from attempts to give a mathematical meaning to the quantum field theory of strong interactions of Yukawa type The fields in such a theory are realized by operators in Hilbert space with a positive Poincare invariant scalar

product This classical part of the axiomatic approach attained its modern form as far back as the sixties It has retained its importance even to this day in spite of the fact that nowadays the main prospects for the description of the electro weak and strong interactions are in connection with the theory of gauge fields In fact from the point of view of the quark model the theory of strong interactions of Wightman type was obtained by restricting attention to just the physical local operators such as hadronic fields consisting of fundamental quark fields acting in a Hilbert space of physical states In principle there are enough such physical fields for a description of hadronic physics although this means that one must reject the traditional local Lagrangian formalism The connection is restored in the approximation of low energy phe nomenological Lagrangians

Landscapes of Time-Frequency Analysis Paolo Boggiatto,Elena Cordero,Maurice de Gosson,Hans G.

Feichtinger,Fabio Nicola,Alessandro Oliaro,Anita Tabacco,2019-01-30 The chapters in this volume are based on talks given at the inaugural Aspects of Time Frequency Analysis conference held in Turin Italy from July 5 7 2017 which brought together experts in harmonic analysis and its applications New connections between different but related areas were presented in the context of time frequency analysis encouraging future research and collaborations Some of the topics covered include

Abstract harmonic analysis Numerical harmonic analysis Sampling theory Compressed sensing Mathematical signal processing Pseudodifferential operators and Applications of harmonic analysis to quantum mechanics Landscapes of Time Frequency Analysis will be of particular interest to researchers and advanced students working in time frequency analysis and other related areas of harmonic analysis

Nonlinear Dispersive Wave Systems Lokenath Debnath,1992-09-09 This book brings together a comprehensive account of major developments in the theory and applications of nonlinear dispersive waves nonlinear water waves KdV and nonlinear Schrodinger equations Davey Stewartson equation Benjamin Ono equation and nonlinear instability phenomena In order to give the book a wider readership chapters have been written by internationally known researchers who have made significant contributions to nonlinear waves and nonlinear instability This volume will be invaluable to applied mathematicians physicists geophysicists oceanographers engineering scientists and to anyone interested in nonlinear dynamics

Dynamics in Infinite Dimensions Jack K. Hale,Luis T. Magalhaes,Waldyr Oliva,2006-04-18 State of the art in qualitative theory of functional differential equations Most of the new material has never appeared in book form and some not even in papers Second edition updated with new topics and results Methods discussed will apply to other equations and applications

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