Gu Chaohao (Ed.)

Soliton Theory and Its Applications

Springer

Soliton Theory And Its Applications

Alex Kasman

Soliton Theory And Its Applications:

   Soliton Theory and Its Applications Chaohao Gu,2013-03-14 Soliton theory is an important branch of applied mathematics and mathematical physics An active and productive field of research it has important applications in fluid mechanics nonlinear optics classical and quantum fields theories etc This book presents a broad view of soliton theory It gives an expository survey of the most basic ideas and methods such as physical background inverse scattering Backl nd transformations finite dimensional completely integrable systems symmetry Kac moody algebra solitons and differential geometry numerical analysis for nonlinear waves and gravitational solitons Besides the essential points of the theory several applications are sketched and some recent developments partly by the authors and their collaborators are presented

   Introduction to Soliton Theory: Applications to Mechanics Ligia Munteanu,Stefania Donescu,2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses   *Hamiltonian Methods in the Theory of Solitons* Ludwig Faddeev,Leon Takhtajan,2007-08-10 This book presents the foundations of the inverse scattering method and its applications to the theory of solitons in such a form as we understand it in Leningrad The concept of solitonwas introduced by Kruskal and Zabusky in 1965 A soliton a solitary wave is a localized particle like solution of a nonlinear equation which describes excitations of finite energy and exhibits several characteristic features propagation does not destroy the profile of a solitary wave the interaction of several solitary waves amounts to their elastic scat tering so that their total number and shape are preserved Occasionally the concept of the soliton is treated in a more general sense as a localized solu tion of finite energy At present this concept is widely spread due to its universality and the abundance of applications in the analysis of various processes in nonlinear media The inverse scattering method which is the mathematical basis of soliton theory has developed into a powerful tool of mathematical physics for studying nonlinear partial differential equations almost as

vigoraus as the Fourier transform The book is based on the Hamiltonian interpretation of the method hence the title Methods of differential geometry and Hamiltonian formal ism in particular are very popular in modern mathematical physics It is precisely the general Hamiltonian formalism that presents the inverse scat tering method in its most elegant form Moreover the Hamiltonian formal ism provides a link between classical and quantum mechanics   *Basic Methods Of Soliton Theory* Ivan V Cherednik,1996-08-22 In the 25 years of its existence Soliton Theory has drastically expanded our understanding of integrability and contributed a lot to the reunification of Mathematics and Physics in the range from deep algebraic geometry and modern representation theory to quantum field theory and optical transmission lines The book is a systematic introduction to the Soliton Theory with an emphasis on its background and algebraic aspects It is the first one devoted to the general matrix soliton equations which are of great importance for the foundations and the applications Differential algebra local conservation laws B cklund Darboux transforms algebraic geometry theta and Baker functions and the inverse scattering method Riemann Hilbert problem with well grounded preliminaries are applied to various equations including principal chiral fields Heisenberg magnets Sin Gordon and Nonlinear Schr dinger equation   **A Study of Soliton Theory and Its Application to Communications** Charles A. Bouman,University of California, Berkeley. Department of Electrical Engineering and Computer Sciences,1982   Topics In Soliton Theory And Exactly Solvable Nonlinear Equations: Proceedings Of The Conference On Nonlinear Evolution Equations, Solitons And The Inverse Scattering Transform Mark J Ablowitz,Benno Fuchssteiner,M Kruskal,1987-06-01 The focus of this volume is to show how the various successful models of nuclear structure complement one another and can be realised as approximations appropriate in different situations to an underlying non relativistic many nucleon theory of nuclei In common with the previous volume on Foundational Models it starts with a broad survey of the relevant nuclear structure data and proceeds with two dominant themes The first is to review the many body theories and successful phenomenological models with collective and nucleon degrees of freedom The second is to show how these models relate to the underlying many nucleon shell model in its various coupling schemes   A Study of Soliton Theory and Its Application to Communications Charles A. Bouman,1984   **Optical Solitons** Kuppuswamy Porsezian,Valakkattil Chako Kuriakose,2008-01-11 Optical Solitons represent one of the most exciting and fascinating concepts in modern communications arousing special interest due to their potential applications in optical fibre communication This volume focuses on the explicit integration of analytical and experimental methods in nonlinear fibre optics and integrated optics It covers all important recent technical issues in optical soliton communication For example individual chapters are devoted to topics such as dispersion management and fibre Bragg grating All authors are leading authorities in their fields   Proceedings, 1995 International Symposium on Nonlinear Theory and Its Applications ,1995   **Advances in Nonlinear Dynamics** Walter Lacarbonara,Balakumar Balachandran,Michael J. Leamy,Jun Ma,J. A. Tenreiro Machado,Gabor Stepan,2022-03-01 This third of three volumes includes papers from the second series of

NODYCON which was held virtually in February of 2021 The conference papers reflect a broad coverage of topics in nonlinear dynamics ranging from traditional topics from established streams of research to those from relatively unexplored and emerging venues of research These include Complex dynamics of COVID 19 modeling prediction and control Nonlinear phenomena in bio systems and eco systems Energy harvesting MEMS NEMS Multifunctional structures materials and metamaterials Nonlinear waves Chaotic systems stochasticity and uncertainty *Lie and non-Lie Symmetries: Theory and Applications for Solving Nonlinear Models* Roman M. Cherniha,2018-07-06 This book is a printed edition of the Special Issue Lie Theory and Its Applications that was published in Symmetry Soliton Theory Allan P. Fordy,1990 A coherent introduction to the complete range of soliton theory including Hirota s method and Backlund transformations Details physical applications of soliton theory with chapters on the peculiar wave patterns of the Andaman Sea atmospheric phenomena general relativity and Davydov solitons Contains testing for full integrability a discussion of the Painlev technique symmetries and conservation law **Further Progress In Analysis - Proceedings Of The 6th International Isaac Congress** A Okay Celebi,Robert Pertsch Gilbert,Heinrich G W Begehr,2009-01-13 The ISAAC International Society for Analysis its Applications and Computation Congress which has been held every second year since 1997 covers the major progress in analysis applications and computation in recent years In this proceedings volume plenary lectures highlight the recent research results while 17 sessions organized by well known specialists reflect the state of the art of important subfields This volume concentrates on partial differential equations function spaces operator theory integral transforms and equations potential theory complex analysis and generalizations inverse problems functional differential and difference equations and integrable systems **Spectral Methods in Soliton Equations** I D Iliev,Eugeni Khristov,Kiril Petrov Kirchev,1994-11-21 Soliton theory as a method for solving some classes of nonlinear evolution equations soliton equations is one of the most actively developing topics in mathematical physics This book presents some spectral theory methods for the investigation of soliton equations ad the inverse scattering problems related to these equations The authors give the theory of expansions for the Sturm Liouville operator and the Dirac operator On this basis the spectral theory of recursion operators generating Korteweg de Vries type equations is presented and the Ablowitz Kaup Newell Segur scheme through which the inverse scattering method could be understood as a Fourier type transformation is considered Following these ideas the authors investigate some of the questions related to inverse spectral problems i e uniqueness theorems construction of explicit solutions and approximative methods for solving inverse scattering problems A rigorous investigation of the stability of soliton solutions including solitary waves for equations which do not allow integration within inverse scattering method is also presented

Waveguide Propagation of Nonlinear Waves Sergey Leble,2019-07-03 This book addresses the peculiarities of nonlinear wave propagation in waveguides and explains how the stratification depends on the waveguide and confinement An example of this is an optical fibre that does not allow light to pass through a density jump The book also discusses

propagation in the nonlinear regime which is characterized by a specific waveform and amplitude to demonstrate so called solitonic behaviour In this case a wave may be strongly localized and propagates with a weak change in shape In the waveguide case there are additional contributions of dispersion originating from boundary or asymptotic conditions Offering concrete guidance on solving application problems this essentially more than twice expanded second edition includes various aspects of guided propagation of nonlinear waves as well as new topics like solitonic behaviour of one mode and multi mode excitation and propagation and plasma waveguides propagation peculiarities of electromagnetic waves in metamaterials new types of dispersion dissipation electromagnetic waveguides planetary waves and plasma waves interaction The key feature of the solitonic behaviour is based on Coupled KdV and Coupled NS systems The systems are derived in this book and solved numerically with the proof of stability and convergence The domain wall dynamics of ferromagnetic microwaveguides and Bloch waves in nano waveguides are also included with some problems of magnetic momentum and charge transport

Glimpses of Soliton Theory Alex Kasman,2023-03-30 This book challenges and intrigues from beginning to end It would be a treat to use for a capstone course or senior seminar William J Satzer MAA Reviews on Glimpses of Soliton Theory First Edition Solitons are nonlinear waves which behave like interacting particles When first proposed in the 19th century leading mathematical physicists denied that such a thing could exist Now they are regularly observed in nature shedding light on phenomena like rogue waves and DNA transcription Solitons of light are even used by engineers for data transmission and optical switches Furthermore unlike most nonlinear partial differential equations soliton equations have the remarkable property of being exactly solvable Explicit solutions to those equations provide a rare window into what is possible in the realm of nonlinearity Glimpses of Soliton Theory reveals the hidden connections discovered over the last half century that explain the existence of these mysterious mathematical objects It aims to convince the reader that like the mirrors and hidden pockets used by magicians the underlying algebro geometric structure of soliton equations provides an elegant explanation of something seemingly miraculous Assuming only multivariable calculus and linear algebra the book introduces the reader to the KdV Equation and its multisoliton solutions elliptic curves and Weierstrass wp functions the algebra of differential operators Lax Pairs and their use in discovering other soliton equations wedge products and decomposability the KP Hierarchy and Sato s theory relating the Bilinear KP Equation to the geometry of Grassmannians Notable features of the book include careful selection of topics and detailed explanations to make the subject accessible to undergraduates numerous worked examples and thought provoking exercises footnotes and lists of suggested readings to guide the interested reader to more information and use of Mathematica to facilitate computation and animate solutions The second edition refines the exposition in every chapter adds more homework exercises and projects updates references and includes new examples involving non commutative integrable systems Moreover the chapter on KdV multisolitons has been greatly expanded with new theorems providing a thorough analysis of their behavior and decomposition   **Mathematics of**

Complexity and Dynamical Systems Robert A. Meyers,2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers *Solitons And Particles* Giulio Soliani,1984-12-01 This is the most up to date book on solitons and is divided into two parts Part 1 Detailed introductory lectures on different aspects of solitons plus lectures on the mathematical aspects on this subject Part 2 Is a collection of reprints on mathematical theories of solitons solitons in field theory solitons as particles and their properties especially topological and physical properties This book is aimed at a wide audience of physicists and mathematicians It is an ideal reference book for young researchers and graduate students **New Trends in the Applications of Differential Equations in Sciences** Angela Slavova,2024-06-15 This book convenes peer reviewed selected papers presented at the Tenth International Conference New Trends in the Applications of Differential Equations in Sciences NTADES held in Saints Constantine and Helena Bulgaria July 17 20 2023 Contributions are devoted to many applications of differential equations in different fields of science A number of phenomena in nature physics chemistry biology and in society economics result in problems leading to the study of linear and nonlinear differential equations stochastic equations statistics analysis numerical analysis optimization and more The main topics are presented in the five parts of the book applications in mathematical physics mathematical biology financial mathematics neuroscience and fractional analysis In this volume the reader will find a wide range of problems concerning recent achievements in both theoretical and applied mathematics The main goal is to promote the exchange of new ideas and research between scientists who develop and study differential equations and researchers who apply them to solve real life problems The book promotes basic research in mathematics leading to new methods and techniques useful for applications of differential equations Solitons Boling Guo,Xiao-Feng Pang,Yu-Feng Wang,Nan Liu,2018-03-19 This book provides an up to date overview of mathematical theories and research results on solitons presenting related mathematical methods and applications as well as numerical experiments Different types of soliton equations are covered along with their dynamical behaviors and applications from physics making the book an essential reference for researchers and graduate students in applied mathematics and physics Contents Introduction Inverse

scattering transform Asymptotic behavior to initial value problems for some integrable evolution nonlinear equations Interaction of solitons and its asymptotic properties Hirota method B cklund transformations and the infinitely many conservation laws Multi dimensional solitons and their stability Numerical computation methods for some nonlinear evolution equations The geometric theory of solitons Global existence and blow up for the nonlinear evolution equations The soliton movements of elementary particles in nonlinear quantum field The theory of soliton movement of superconductive features The soliton movements in condensed state systemsontents

Reviewing **Soliton Theory And Its Applications**: Unlocking the Spellbinding Force of Linguistics

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