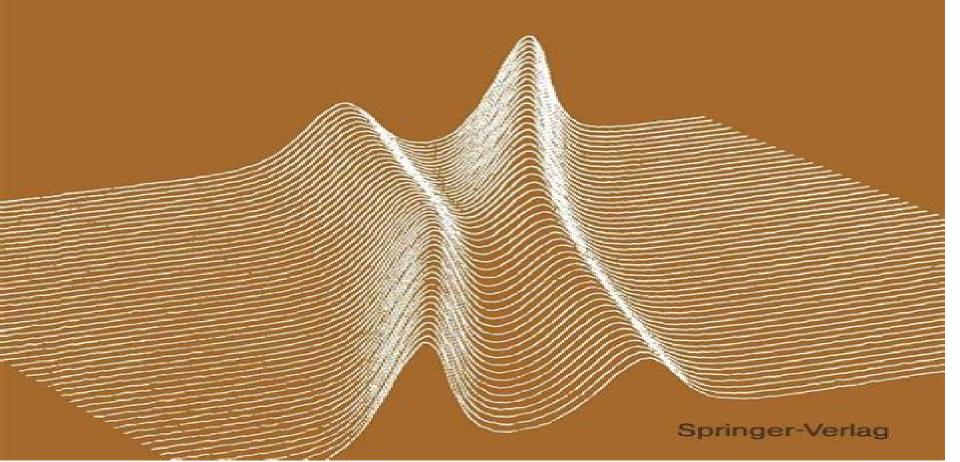M. Lakshmanan (Ed.)

Solitons

Introduction and Applications

Solitons Introduction And Applications

Huangqi Zhang

Solitons Introduction And Applications:

Solitons Muthusamy Lakshmanan,2012-12-06 A good deal of the material presented in this book has been prepared by top experts in the field lecturing in January 1987 at the Winter School on Solitons in Tiruchirapalli India The lectures begin at an elementary level but go on to include even the most recent developments in the field The book makes a handy introduction to the various facets of the soliton concept and will be useful both to newcomers to the field and to researchers who are interested in developments in new branches of physics and mathematics **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 Solitons Mohamed Atef Helal,2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schr dinger NLS Korteweg de Vries Burger s KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies **Bäcklund Transformations, the Inverse Scattering Method, Solitons, and Their Applications** Robert M. Miura,2006-11-14

Proceedings of the NSF Research Workshop on Contact Transformations Held in Nashville Tennessee 1974 *Rossby Vortices, Spiral Structures, Solitons* Mikhail V. Nezlin,Evgenii N. Snezhkin,2013-11-11 This book can be looked upon in more ways than one On the one hand it describes strikingly interesting and lucid hydrodynamic experiments done in the style of the good old days when the physicist needed little more than a piece of string and some sealing wax On the other hand it demonstrates how a profound physical analogy can help to get a synoptic view on a broad range of nonlinear phenomena involving self organization of vortical structures in planetary atmo spheres and oceans in galaxies and in plasmas In particular this approach has elucidated the nature and the mechanism of such grand phenomena as the Great of galaxies A number of our Red Spot vortex on Jupiter and the spiral arms predictions concerning the dynamics of spiral galaxies are now being confirmed by astronomical observations stimulated by our experiments This book is based on the material most of which was accumulated during 1981 88 in close cooperation with our colleagues experimenters from the Plasma Physics Department of the Kurchatov Atomic Energy Institute S V Antipov A S Trubnikov AYu Rylov AV Khutoretsky and astrophysics theoreticians from the Astronomical Council of the USSR Academy of Sciences AM Frid man and from the Volgograd State University AG Morozov To all of them we wish to express our gratitude Whenever we speak of our experiments the participation of the entire team is implied **Solitons** P. G. Drazin,R. S. Johnson,1989-02-09 Solitons An Introduction discusses the theory of solitons and its diverse applications to nonlinear systems that arise in the physical sciences Drazin and Johnson explain the generation and properties of solitons introducing the mathematical technique known as the Inverse Scattering Tranform Their aim is to present the essence of inverse scattering clearly rather than rigorously or completely Thus the prerequisites are merely what is found in standard courses on mathematical physics and more advanced material is explained in the text with useful references to further reading given at the end of each chapter Worked examples are frequently used to help the reader follow the various ideas and the exercises at the end of each chapter not only contain applications but also test understanding Answers or hints to their solution are given at the end of the book Sections and exercises that contain more difficult material are indicated by asterisks **Topological and Non-Topological Solitons in Scalar Field Theories** Yakov M. Shnir,2018-07-26 Solitons emerge in various non linear systems as stable localized configurations behaving in many ways like particles from non linear optics and condensed matter to nuclear physics cosmology and supersymmetric theories This book provides an introduction to integrable and non integrable scalar field models with topological and non topological soliton solutions Focusing on both topological and non topological solitons it brings together debates around solitary waves and construction of soliton solutions in various models and provides a discussion of solitons using simple model examples These include the Kortenweg de Vries system sine Gordon model kinks and oscillons and skyrmions and hopfions The classical field theory of scalar field in various spatial dimensions is used throughout the book in presentation of related concepts both at the technical and conceptual level Providing a

comprehensive introduction to the description and construction of solitons this book is ideal for researchers and graduate students in mathematics and theoretical physics   Optical Solitons in Fibers Akira Hasegawa,Masayuki Matsumoto,2012-11-02 Optical solitons in fibers are a beautiful example of how an abstract mathematical concept has had an impact on new information transmission technologies The concept of all optical data transmission with optical soliton systems is now setting the standard for the most advanced transmission systems The book deals with the motion of light waves in optical fibers the evolution of light wavepackets optical information transfer all optical soliton transmission systems the control of optical solitons polarization effects dispersion managed solitons WDM transmission soliton lasers all optical switching and other applications This book is a must for all researchers and graduate students active in the field of optical data transmission   Visions of Nonlinear Science in the 21st Century Jose L. Huertas,Wai-Kai Chen,Rabinder N. Madan,1999 Authoritative and visionary this festschrift features 12 highly readable expositions of virtually all currently active aspects of nonlinear science It has been painstakingly researched and written by leading scientists and eminent expositors including L Shilnikov R Seydel I Prigogine W Porod C Mira M Lakshmanan W Lauterborn A Holden H Haken C Grebogi E Doedel and L Chua each chapter addresses a current and intensively researched area of nonlinear science and chaos including nonlinear dynamics mathematics numerics and technology Handsomely produced with high resolution color graphics for enhanced readability this book has been carefully written at a high level of exposition and is somewhat self contained Each chapter includes a tutorial and background information as well as a survey of each area s main results and state of the art Of special interest to both beginners and seasoned researchers is the identification of future trends and challenging yet tractable problems thatare likely to be solved before the end of the 21st century The visionary and provocative nature of this book makes it a valuable and lasting reference   **Important Developments in Soliton Theory** A.S. Fokas,V.E. Zakharov,2012-12-06 In the last ten to fifteen years there have been many important developments in the theory of integrable equations This period is marked in particular by the strong impact of soliton theory in many diverse areas of mathematics and physics for example algebraic geometry the solution of the Schottky problem group theory the discovery of quantum groups topology the connection of Jones polynomials with integrable models and quantum gravity the connection of the KdV with matrix models This is the first book to present a comprehensive overview of these developments Numbered among the authors are many of the most prominent researchers in the field   **Nonlinear Dynamics** M. Daniel,K. M. Ramizhmani,R. Sahadevan,2000 Contributed articles presented at the International Conference on Nonlinear Dynamics Integrability and Chaos held at Bharathidasan University during 12 16 Feb 1998 In honor of Prof M Lakshmanan   **Bäcklund and Darboux Transformations** A. A. Coley,2001-01-01 This book is devoted to a classical topic that has undergone rapid and fruitful development over the past 25 years namely Backlund and Darboux transformations and their applications in the theory of integrable systems also known as soliton theory The book consists of two parts The first is a

series of introductory pedagogical lectures presented by leading experts in the field They are devoted respectively to Backlund transformations of Painleve equations to the dressing methodand Backlund and Darboux transformations and to the classical geometry of Backlund transformations and their applications to soliton theory The second part contains original contributions that represent new developments in the theory and applications of these transformations Both the introductorylectures and the original talks were presented at an International Workshop that took place in Halifax Nova Scotia Canada This volume covers virtually all recent developments in the theory and applications of Backlund and Darboux transformations   **Physics of Solitons** Thierry Dauxois,Michel Peyrard,2006-03-09 This textbook gives an instructive view of solitons and their applications for advanced students of physics   *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

   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   Introductory Guide to Partial Differential Equations Sameer Kulkarni,2025-02-20 Introductory Guide to Partial Differential Equations is an accessible and comprehensive introduction to Partial Differential Equations PDEs for undergraduate students We provide a solid foundation in the theory and applications of PDEs catering to students in mathematics engineering physics and related fields We present fundamental concepts of PDEs in a clear and engaging

manner emphasizing both theoretical understanding and practical problem solving skills Starting with basic concepts such as classification of PDEs boundary and initial conditions and solution techniques we gradually progress to advanced topics including Fourier series separation of variables and the method of characteristics Real world applications of PDEs are woven throughout the book demonstrating the relevance of this mathematical theory in fields such as heat conduction fluid dynamics quantum mechanics and finance Numerous examples exercises and applications are included to reinforce learning and encourage active engagement with the material Whether you re preparing for further study in mathematics or seeking to apply PDEs in your chosen field this book equips you with the knowledge and skills necessary to tackle a wide range of problems involving partial differential equations We hope this text will inspire curiosity and confidence in approaching the rich and diverse world of PDEs *Nonlinear Equations in Physics and Mathematics* P. Barut,2012-12-06 This is the third Volume in a series of books devoted to the interdisciplinary area between mathematics and physics all ema nating from the Advanced Study Institutes held in Istanbul in 1970 1972 and 1977 We believe that physics and mathematics can develop best in harmony and in close communication and cooper ation with each other and are sometimes inseparable With this goal in mind we tried to bring mathematicians and physicists together to talk and lecture to each other this time in the area of nonlinear equations The recent progress and surge of interest in nonlinear ordi nary and partial differential equations has been impressive At the same time novel and interesting physical applications mul tiply There is a unifying element brought about by the same characteristic nonlinear behavior occurring in very widely differ ent physical situations as in the case of solitons for exam ple This Volume gives we believe a very good indication over all of this recent progress both in theory and applications and over current research activity and problems The 1977 Advanced Study Institute was sponsored by the NATO Scientific Affairs Division The University of the Bosphorus and the Turkish Scientific and Technical Research Council We are deeply grateful to these Institutions for their support and to lecturers and participants for their hard work and enthusiasm which created an atmosphere of lively scientific discussions **Nonlinear Physics** Yunbo Zeng,Chaohao Gu,Yishen Li,Guizhang Tu,2012-12-06 These refereed proceedings present recent developments on specific mathematical and physical aspects of nonlinear dynamics The new findings discussed in here will be equally useful to graduate students and researchers The topics dealt with cover a wide range of phenomena solitons integrable systems Hamiltonian structures B cklund and Darboux transformation symmetries fi nite dimensional dynamical systems quantum and statistical mechanics knot theory and braid group R matrix method Hirota and Painlev analysis and applications to water waves lattices porous media string theory and even cellular automata *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 *Nonlinear Optical Systems* Le Nguyen Binh,Dang Van Liet,2012-03-05 Nonlinear Optical Systems Principles Phenomena and Advanced Signal Processing is a simplified overview of the evolution of technology associated with nonlinear systems and advanced signal processing This book s coverage ranges from fundamentals to phenomena to the most cutting edge aspects of systems for next generation biomedical monitoring an

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