Soliton Management in Periodic Systems

Boris A. Malomed

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Soliton Management In Periodic Systems:

    Soliton Management in Periodic Systems Boris A. Malomed,2006-07-06 During the past ten years there has been intensive development in theoretical and experimental research of solitons in periodic media This book provides a unique and informative account of the state of the art in the field The volume opens with a review of the existence of robust solitary pulses in systems built as a periodic concatenation of very different elements Among the most famous examples of this type of systems are the dispersion management in fiber optic telecommunication links and more recently photonic crystals A number of other systems belonging to the same broad class of spatially periodic strongly inhomogeneous media such as the split step and tandem models have recently been identified in nonlinear optics and transmission of solitary pulses in them was investigated in detail Similar soliton dynamics occurs in temporal domain counterparts of such systems where they are subject to strong time periodic modulation for instance the Feshbach resonance management in Bose Einstein condensates Basis results obtained for all these systems are reviewed in the book This timely work will serve as a useful resource for the soliton community   **Soliton Management in Periodic Systems** Boris A. Malomed,2008-11-01 During the past ten years there has been intensive development in theoretical and experimental research of solitons in periodic media This book provides a unique and informative account of the state of the art in the field The volume opens with a review of the existence of robust solitary pulses in systems built as a periodic concatenation of very different elements Among the most famous examples of this type of systems are the dispersion management in fiber optic telecommunication links and more recently photonic crystals A number of other systems belonging to the same broad class of spatially periodic strongly inhomogeneous media such as the split step and tandem models have recently been identified in nonlinear optics and transmission of solitary pulses in them was investigated in detail Similar soliton dynamics occurs in temporal domain counterparts of such systems where they are subject to strong time periodic modulation for instance the Feshbach resonance management in Bose Einstein condensates Basis results obtained for all these systems are reviewed in the book This timely work will serve as a useful resource for the soliton community   **Progress in Optics** ,2009-01-06 In the fourty seven years that have gone by since the first volume of Progress in Optics was published optics has become one of the most dynamic fields of science The volumes in this series which have appeared up to now contain more than 300 review articles by distinguished research workers which have become permanent records for many important developments Backscattering and Anderson localization of light Advances in oliton manipulation in optical lattices Fundamental quantum noise in optical amplification Invisibility cloaks   **Vortex Structures in Fluid Dynamic Problems** Hector Perez-De-Tejada,2017-03-01 The contents of the book cover topics on vortex dynamics in a variety of flow problems and describe observational measurements and their interpretation The book contains 13 chapters that first include vortices in the earth and planetary sciences related to vortices in the Venus plasma wake and also on tropical cyclones and on rotating shallow water in the earth s atmosphere Vortices in

fluid problems include airplane wake vortices vorticity evolution in free shear flows together with axisymmetric flows with swirl as well as thermal conductivities in fluid layers Vortices in relativistic fluids in magnetic disks solitons and vortices and relaxation for point vortices were also examined Other chapters describe conditions in a vortex bioreactor and in vortex yarn structures   *Generalized Models and Non-classical Approaches in Complex Materials 2* Holm Altenbach,Joël Pouget,Martine Rousseau,Bernard Collet,Thomas Michelitsch,2018-06-26 This book is the 2nd special volume dedicated to the memory of G rard Maugin Over 30 leading scientists present their contribution to reflect the vast field of scientific activity of G rard Maugin The topics of contributions employing often non standard methods generalized model in this volume show the wide range of subjects that were covered by this exceptional scientific leader The topics range from micromechanical basics to engineering applications focusing on new models and applications of well known models to new problems They include micro macro aspects computational efforts possibilities to identify the constitutive equations and old problems with incorrect or non satisfying solutions based on the classical continua assumptions   *Handbook of Applications of Chaos Theory* Christos H. Skiadas,Charilaos Skiadas,2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhelic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincar disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research

Nonlinear Optical Cavity Dynamics Philippe Grelu,2015-12-23 By recirculating light in a nonlinear propagation medium the nonlinear optical cavity allows for countless options of light transformation and manipulation In passive media optical bistability and frequency conversion are central figures In active media laser light can be generated with versatile underlying dynamics Emphasizing on ultrafast dynamics the vital arena for the information technology the soliton is a common conceptual keyword thriving into its modern developments with the closely related denominations of dissipative solitons and cavity solitons Recent technological breakthroughs in optical cavities from micro resonators to ultra long fiber cavities have

entitled the exploration of nonlinear optical dynamics over unprecedented spatial and temporal orders of magnitude By gathering key contributions by renowned experts this book aims at bridging the gap between recent research topics with a view to foster cross fertilization between research areas and stimulating creative optical engineering design *Nonlinear Waves* Emmanuel Kengne,WuMing Liu,2023-02-23 This book highlights the methods to engineer dissipative and magnetic nonlinear waves propagating in nonlinear systems In the first part of the book the authors present methodologically mathematical models of nonlinear waves propagating in one and two dimensional nonlinear transmission networks without with dissipative elements Based on these models the authors investigate the generation and the transmission of nonlinear modulated waves in general and solitary waves in particular in networks under consideration In the second part of the book the authors develop basic theoretical results for the dynamics matter wave and magnetic wave solitons of nonlinear systems and of Bose Einstein condensates trapped in external potentials combined with the time modulated nonlinearity The models treated here are based on one two and three component non autonomous Gross Pitaevskii equations Based on the Heisenberg model of spin spin interactions the authors also investigate the dynamics of magnetization in ferromagnet with or without spin transfer torque This research book is suitable for physicists mathematicians engineers and graduate students in physics mathematics and network and information engineering *Progress in Optics* Emil Wolf,2009-07-20 In the forty eight years that have gone by since the first volume of Progress in Optics was published optics has become one of the most dynamic fields of science The volumes in this series which have appeared up to now contain more than 300 review articles by distinguished research workers which have become permanent records for many important developments 3D optical microscopy Transformation optics and geometry of light Photorefractive solitons Stimulated scattering effects Optical vortices and polarization singularities Quantum feedforward control of light   Advances in Precision Laser Spectroscopy Kelin Gao,Wuming Liu,Jianping Yin,Jin Wang,Mingsheng Zhan,2022-06-21 Provides extensive and thoroughly exhaustive coverage of precision laser spectroscopy Presents chapters written by recognized experts in their individual fields Topics covered include cold atoms cold molecules methods and techniques for production of cold molecules optical frequency standards based on trapped single ions etc Applicable for researchers and graduate students of optical physics and precision laser spectroscopy   **The Defocusing Nonlinear Schr?dinger Equation** Panayotis G. Kevrekidis,Dimitri J. Frantzeskakis,Ricardo Carretero-Gonz?lez,2015-08-04 Bose Einstein condensation is a phase transition in which a fraction of particles of a boson gas condenses into the same quantum state known as the Bose Einstein condensate BEC The aim of this book is to present a wide array of findings in the realm of BECs and on the nonlinear Schr dinger type models that arise therein The Defocusing Nonlinear Schr dinger Equation is a broad study of nonlinear excitations in self defocusing nonlinear media It summarizes state of the art knowledge on the defocusing nonlinear Schr dinger type models in a single volume and contains a wealth of resources including over 800 references to relevant articles and monographs and a meticulous index for

ease of navigation   **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   **New Trends in Optical Soliton Transmission Systems** Akira Hasegawa,2012-12-06 This book summarizes the proceedings of the invited talks presented at the International Symposium on New Trends in Optical Soliton Transmission Systems held in Kyoto during November 18 21 1997 As a result of worldwide demand for ultra high bitrate transmissions and increased scientific interest from the soliton community research on optical solitons in fibres has made remarkable progress in recent years In view of these trends the Research Group for Optical Soliton Communications ROSC chaired by Akira Hasegawa was established in Japan in April 1995 to promote collaboration and information exchange among communication service companies industries and academic circles in the theory and application of optical solitons This symposium was organized as a part of the ROSC activities As with the 1 st ROSC symposium this symposium attracted enthusiastic response from worldwide researchers involved in the subject of soliton based communications and intensive discussions were held throughout the symposium Particular emphases were made to dispersion managements of soliton transmission I would like to note that in the t symposium the adiabatic dispersion managements just began to appear in reducing radiation at amplifiers and reducing collision effects in WDM system These have become standard this time but in addition new non adiabatic dispersion managements have been introduced independently by various scientists all over the world   **Continuous Symmetries and Integrability of Discrete Equations** Decio Levi,Pavel Winternitz,Ravil I. Yamilov,2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries The book contains three chapters and five appendices The first chapter is an introduction to the general ideas about symmetries lattices differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the

readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are interested in the study of symmetries and integrability of difference equations   **Optical Solitons: Theoretical Challenges and Industrial Perspectives** Vladimir E. Zakharov,Stefan Wabnitz,2013-04-17 1 2 V E Zakharov and S Wabnitz 1 L D Landau Institute for Theoretical Physics 2 Kosygin Str 117334 Moscow Russia 2 Laboratoire de Physique University of Bourgogne 9 avenue A Savary 21078 Dijon France After about a quarter of a century since the first theoretical predictions of op tical solitons the industrial application of the optical soliton concept is near to reality in the booming field of modern telecommunications where the de mand for high speed data transmission and routing is of ever growing This book contains a set of lectures that were presented at a Les Houches school on optical solitons in September 1998 The school was successful in gathering among the lecturers most of the well recognized world leaders in the field of optical solitons A variety of different aspects of research into optical solitons was exposed in the lectures ranging from the mathematical fundations of integrability theory to the rapidly evolving technological advances of fiber soliton based telecommu nication systems The overall impression that the participants and the students received from the school is that this field of research is an excellent example of the rapid transfer that occurs nowadays from basic science to the technological implementations of the first principles The subjects that were covered by the lectures can be broadly grouped into four main categories optical soliton the ory fiber soliton telecommunications optical soliton generation methods and all optical information processing via spatial solitons   **Schrödinger Equations in Nonlinear Systems** Wu-Ming Liu,Emmanuel Kengne,2019-03-20 This book explores the diverse types of Schr dinger equations that appear in nonlinear systems in general with a specific focus on nonlinear transmission networks and Bose Einstein Condensates In the context of nonlinear transmission networks it employs various methods to rigorously model the phenomena of modulated matter wave propagation in the network leading to nonlinear Schr dinger NLS equations Modeling these phenomena is largely based on the reductive perturbation method and the derived NLS equations are then used to methodically investigate the dynamics of matter wave solitons in the network In the context of Bose Einstein condensates BECs the book analyzes the dynamical properties of NLS equations with the external potential of different types which govern the dynamics of modulated matter waves in BECs with either two body interactions or both two and three body interatomic interactions It also discusses the method of investigating both the well posedness and the ill posedness of the boundary problem for linear and nonlinear Schr dinger equations and presents new results Using simple examples it then illustrates the results on the boundary problems For both nonlinear transmission networks and Bose Einstein condensates the results obtained are supplemented by numerical calculations and presented as figures   Massive WDM and TDM Soliton Transmission Systems Akira Hasegawa,2006-04-11 This book summarizes the proceedings of the invited talks presented at the International Symposium on Massive TDM and WDM Optical Soliton Tra mission Systems held in Kyoto

during November 9 12 1999 The symposium is the third of the series organized by Research Group for Optical Soliton C munications ROSC chaired by Akira Hasegawa The research group ROSC was established in Japan in April 1995 with a support of the Japanese Ministry of Post and Telecommunications to promote collaboration and information change among communication service companies communication industries and academic circles in the theory and application of optical solitons The symposium attracted enthusiastic response from worldwide researchers in the field of soliton based communications and intensive discussions were made In the symposium held in 1997 new concept of soliton transmission based on dispersion management of optical fibers were presented This new soliton is now called the dispersion managed soliton The present symposium mainly focuses the theoretical and experimental developments of dispersion managed solitons It is remarkable that the concept of the dispersion managed soliton which was just born two years ago when the naming was not even given yet has become the center of soliton research in two years The dispersion managed soliton has an enhanced power in maintaining reasonable signal to noise ratio yet has reduced Gordon Haus timing jitter by reduced averagedispersion The dispersion managed soliton also has demonstrated its power in soliton based WDM transmissions

The Discrete Nonlinear Schrödinger Equation Panayotis G. Kevrekidis,2009-07-07 This book constitutes the first effort to summarize a large volume of results obtained over the past 20 years in the context of the Discrete Nonlinear Schr dinger equation and the physical settings that it describes *Emergent Nonlinear Phenomena in Bose-Einstein Condensates* Panayotis G. Kevrekidis,Dimitri J. Frantzeskakis,Ricardo Carretero-González,2007-12-29 This book written by experts in the fields of atomic physics and nonlinear science covers the important developments in a special aspect of Bose Einstein condensation namely nonlinear phenomena in condensates Topics covered include bright dark gap and multidimensional solitons vortices vortex lattices optical lattices multicomponent condensates mathematical methods rigorous results and the beyond the mean field approach **Nonlinear Science and Complexity** J.A. Tenreiro Machado,Albert C. J. Luo,Ramiro S. Barbosa,Manuel F. Silva,Lino B. Figueiredo,2010-11-03 This book contains selected papers of NSC08 the 2nd Conference on Nonlinear Science and Complexity held 28 31 July 2008 Porto Portugal It focuses on fundamental theories and principles analytical and symbolic approaches computational techniques in nonlinear physics and mathematics Topics treated include Chaotic Dynamics and Transport in Classic and Quantum Systems Complexity and Nonlinearity in Molecular Dynamics and Nano Science Complexity and Fractals in Nonlinear Biological Physics and Social Systems Lie Group Analysis and Applications in Nonlinear Science Nonlinear Hydrodynamics and Turbulence Bifurcation and Stability in Nonlinear Dynamic Systems Nonlinear Oscillations and Control with Applications Celestial Physics and Deep Space Exploration Nonlinear Mechanics and Nonlinear Structural Dynamics Non smooth Systems and Hybrid Systems Fractional dynamical systems

The Enigmatic Realm of **Soliton Management In Periodic Systems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Soliton Management In Periodic Systems** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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Soliton Management In Periodic Systems Introduction

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