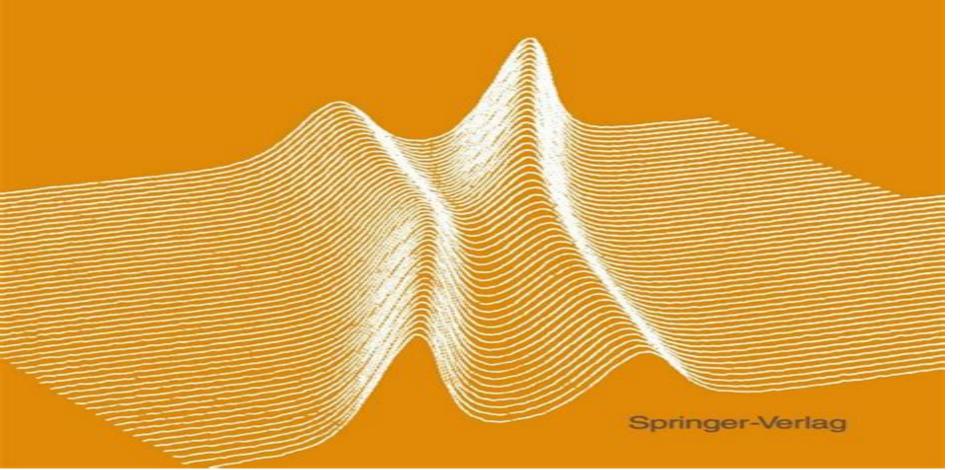F. Abdullaev   S. Darmanyan
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Optical Solitons

Optical Solitons With 34 Figures Springer Series In Nonlinear Dynamics

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Optical Solitons With 34 Figures Springer Series In Nonlinear Dynamics:

  Optical Solitons Fatkhulla Khabibullaevich Abdullaev,Sergei Darmanyan,Pulat Khabibullaev,1993-10-26 This book presents an up to date survey of the theory and practical applications of optical solitons The topics include the dynamics of optical solitons in single and multi mode waveguides and in unbounded media interactions between solitons the effect of perturbations in a system of coupled waveguides soliton generation from noise and computer simulations applicable to real waveguides Applications in information transmission and storage are also considered Back cover   Lasers Jean-Claude Diels,Ladan Arissian,2011-10-10 Lasers are active ingredients of our modern life but they are inconspicuous as they often go unnoticed This intuitive introductory guide will tell you all you want to know about laser technologies in very diverse fields from nuclear and particle physics to medicine astronomy and ultra precise metrology The book is coherently focused on fundamentals and is aimed to stimulate intuition about present and future applications while unveiling the halo of myths around lasers Written by reputable laser experts who think that science should be entertaining this useful reference relies on simple analogies and illustrations rather than complex mathematics and will be suitable for students and end users of laser technologies including novices Voted a CHOICE Outstanding Academic Title 2012   **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   **Negative Differential Resistance and Instabilities in 2-D Semiconductors** N. Balkan,B.K. Ridley,A.J. Vickers,2012-12-06 Instabilities associated with hot electrons in semiconductors have been investigated from the beginning of transistor physics in the 194Os The study of NDR and impact ionization in bulk material led to devices like the Gunn diode and the avalanche photo diode In layered semiconductors domain formation in HEMTs can lead to excess gate leakage and to excess noise The studies of hot electron transport parallel to the layers in heterostructures single and multiple have shown abundant evidence of electrical instability and there has been no shortage of suggestions concerning novel NDR mechanisms such as real space transfer scattering induced NDR inter sub band transfer percolation effects etc Real space transfer has been exploited in negative resistance PETs NERFETs and in the charge injection transistor CHINT and in light emitting logic devices but far too little is known and understood

about other NDR mechanisms with which quantum well material appears to be particularly well endowed for these to be similarly exploited The aim of this book is therefore to collate what is known and what is not known about NDR instabilities and to identify promising approaches and techniques which will increase our understanding of the origin of these instabilities which have been observed during the last decade of investigations into high field longitudinal transport in layered semiconductors The book covers the fundamental properties of hot carrier transport and the associated instabilities and light emission in 2 dimensional semiconductors dealing with both theory and experiment **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 Dynamics and Statistics** Alistair I. Mees,2012-12-06 All models are lies The Earth orbits the sun in an ellipse with the sun at one focus is false but accurate enough for almost all purposes This book describes the current state of the art of telling useful lies about time varying systems in the real world Specifically it is about trying to understand that is tell useful lies about dynamical systems directly from observa tions either because they are too complex to model in the conventional way or because they are simply ill understood B cause it overlaps with conventional time series analysis building mod els of nonlinear dynamical systems directly from data has been seen by some observers as a somewhat ill informed attempt to reinvent time series analysis The truth is distinctly less trivial It is surely impossible except in a few special cases to re create Newton s astonishing feat of writing a short equation that is an excellent description of real world phenomena Real systems are connected to the rest of the world they are noisy non stationary and have high dimensional dynamics even when the dynamics contains lower dimensional attractors there is almost never a coordinate system available in which these at tractors have a conventionally simple description *Monographic Series* Library of Congress,1980 Advances in Nonlinear Dynamics, Volume III Walter Lacarbonara,2024-05-01 This third of three volumes presents papers from the third series of NODYCON to be held in June of 2023 The conference papers reflect a broad coverage of topics in nonlinear dynamics both traditionally placed in established streams of research as well as they stand as newly explored and emerging venues of

research These include Multi scale dynamics multiple time space scales large system dynamics Experimental dynamics benchmark experiments experimental methods instrumentation techniques measurements in harsh environments experimentalvalidation of nonlinear models Reduced order modeling center manifold reduction nonlinear normal modes normalforms Systems with time and or space delays Nonlinear interactions in multi dof systems parametric vibrations multiple external andautoparametric resonances Computational techniques efficient algorithms use ofsymbolic manipulators integrationof symbolic manipulation and numerical methods use of parallel processors Nonlinear system identification parametric nonparametric identification data drivenidentification Multibody dynamics rigid and flexible multibody system dynamics impact and contactmechanics tire modeling railroad vehicle dynamics biomechanics applications computational multibody dynamics Fluid structure interaction Nonlinear wave propagation in discrete and continuous media **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 *Library of Congress Catalogs* Library of Congress,1981 **International Books in Print, 1995** Barbara Hopkinson,[Anonymus AC01401231],1995 **Autosolitons** B.S. Kerner,V.V. Osipov,2013-06-29 This monograph is devoted to an entirely new branch of nonlinear physics solitary intrinsic states or autosolitons which form in a broad class of physical chemical and biological dissipative systems Autosolitons are often observed as highly nonequilibrium regions in slightly nonequilibrium systems in many ways resembling ball lightning which occurs in the atmosphere We develop a new approach to problems of self organization and turbulence treating these phenomena as a result of spontaneous formation and subsequent evolution of autosolitons Scenarios of self organization involve sophisticated interactions between autosolitons whereas turbulence is regarded as a pattern of autosolitons which appear and disappear at random in different parts of the system This monograph is the first attempt to provide a comprehensive summary of the theory of autosolitons as developed by the authors over the years of research The monograph is comprised of three more or less autonomous parts Part I deals with the physical nature and experimental studies of autosolitons and self organization in various physical systems semiconductor and gas plasma heated gas mixture semiconductor structures composite superconductors optical and magnetic media systems with uniformly generated combustion matter distributed gas discharge and electronic systems We discuss feasibility of autosolitons in the form of highly nonequilibrium regions in slightly nonequilibrium gases and semiconductors hot and cold regions in semiconductor and gas plasmas static pulsating and traveling combustion fronts *Handbook of Laser Technology and Applications (Three-Volume Set)* Colin Webb,Julian D. C. Jones,2003-12-01 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical

innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists a **Physics Briefs** ,1993 *Handbook of Laser Technology and Applications: Laser design and laser systems* Colin E. Webb,Julian D. C. Jones,2004 **Localized States in Physics: Solitons and Patterns** Orazio Descalzi,Marcel Clerc,Stefania Residori,Gaetano Assanto,2011-01-06 Systems driven far from thermodynamic equilibrium can create dissipative structures through the spontaneous breaking of symmetries A particularly fascinating feature of these pattern forming systems is their tendency to produce spatially confined states These localized wave packets can exist as propagating entities through space and or time Various examples of such systems will be dealt with in this book including localized states in fluids chemical reactions on surfaces neural networks optical systems granular systems population models and Bose Einstein condensates This book should appeal to all physicists mathematicians and electrical engineers interested in localization in far from equilibrium systems The authors all recognized experts in their fields strive to achieve a balance between theoretical and experimental considerations thereby giving an overview of fascinating physical principles their manifestations in diverse systems and the novel technical applications on the horizon **Soliton-driven Photonics** A.D. Boardman,A.P. Sukhorukov,2012-12-06 It is ironic that the ideas ofNewton which described a beam of light as a stream ofparticles made it difficult for him to explain things like thin film interference Yet these particles called photons have caused the adjective photonic to gain common usage when referring to optical phenomena The purist might argue that only when we are confronted by the particle nature of light should we use the word photonics Equally the argument goes on only when we are face to face with an integrable system i e one that possesses an infinite number of conserved quantities should we say soliton rather than solitary wave Scientists and engineers are pragmatic however and they are happy to use the word soliton to describe what appears to be an excitation that is humped multi humped or localised long enough for some use to be made of it The fact that such solitons may stick to each other fuse upon collision is often something to celebrate for an application rather than just evidence that after all these are not really solitons in the classic sense Soliton therefore is a widely used term with the qualification that we are constantly looking out for deviant behaviour that draws our attention to its solitary wave character In the same spirit photonics is a useful generic cover all noun even when electromagnetic theory or optics would suffice Dynamical Problems in Soliton Systems Shozo Takeno,2013-03-14 This volume contains most of the papers presented in the oral session of the 7th Kyoto Summer Institute KSI on Dynamical Problems in Soliton Systems held in Kyoto from August 27 to 31 1984 Furthermore it contains contributions of R K Bullough H H Chen A S Davydov and N Sanchez who unfortunately could not attend Thirty six papers were presented in the oral session and 17 papers in the poster session The meeting brought together 109 physicists and mathematicians of which 22 were from abroad see group photograph The KSI is an international meeting organized by the Research Institute for Fundamental Physics RIFP Kyoto University to discuss various cur re nt problems of fundamental importance in theoretical physics The 7th KSI was the first

international meeting on solitons in Japan Early in 1983 it was feit in the RIFP that the time was ripe for a conference dealing with problems concerning solitons The RIFP asked us to organize the confer ence The Organizing Committee consisted of R Hirota Hiroshima T Taniuti Nagoya Y H Ichikawa Nagoya M Toda Tokyo Z Maki Kyoto M Wadati Tokyo N Yajima Fukuoka S Takeno Kyoto Since its discovery the study of the soliton as a stable particle like state of nonlinear systems has caught the imagination of physicists and mathemati cians **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 **Recent Trends in Applied Nonlinear Mechanics and Physics** Mohamed Belhaq,2017-11-13 This book presents contributions on the most active lines of recent advanced research in the field of nonlinear mechanics and physics selected from the 4th International Conference on Structural Nonlinear Dynamics and Diagnosis It includes fifteen chapters by outstanding scientists covering various aspects of applications including road tanker dynamics and stability simulation of abrasive wear energy harvesting modeling and analysis of flexoelectric nanoactuator periodic Fermi Pasta Ulam problems nonlinear stability in Hamiltonian systems nonlinear dynamics of rotating composites nonlinear vibrations of a shallow arch extreme pulse dynamics in mode locked lasers localized structures in a photonic crystal fiber resonator nonlinear stochastic dynamics linearization of nonlinear resonances treatment of a linear delay differential equation and fractional nonlinear damping It appeals to a wide range of experts in the field of structural nonlinear dynamics and offers researchers and engineers an introduction to the challenges posed by nonlinearities in the development of these topics

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