

Solitons in Optical Fibers

Fundamentals
and Applications

$$u_2 = \operatorname{sech}(t - t_2)$$

*Linn F. Mollenauer
and James P. Gordon*



Solitons And Applications

Flora Chu



Solitons 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

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 Backlund 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

Handbook of Solitons S. P. Lang, Salim H. Bedore, 2009 In mathematics and physics a soliton is a self reinforcing solitary wave a wave packet or pulse that maintains its shape while it travels at constant speed Solitons are caused by a cancellation of non linear and dispersive effects in the medium Dispersive effects refer to dispersion relations between the frequency and the speed of the waves Solitons arise as the solutions of a widespread class of weakly non linear dispersive partial differential equations describing physical systems This book presents the latest research in the

field Electrical Solitons David S. Ricketts, Donhee Ham, 2010-12-14 The dominant medium for soliton propagation in electronics nonlinear transmission line NLTL has found wide application as a testbed for nonlinear dynamics and KdV phenomena as well as for practical applications in ultra sharp pulse edge generation and novel nonlinear communication schemes in electronics While many texts exist covering solitons in general there is as yet no source that provides a comprehensive treatment of the soliton in the electrical domain Drawing on the award winning research of Carnegie Mellon s David S Ricketts *Electrical Solitons Theory Design and Applications* is the first text to focus specifically on KdV solitons in the nonlinear transmission line Divided into three parts the book begins with the foundational theory for KdV solitons presents the core underlying mathematics of solitons and describes the solution to the KdV equation and the basic properties of that solution including collision behaviors and amplitude dependent velocity It also examines the conservation laws of the KdV for loss less and lossy systems The second part describes the KdV soliton in the context of the NLTL It derives the lattice equation for solitons on the NLTL and shows the connection with the KdV equation as well as the governing equations for a lossy NLTL Detailing the transformation between KdV theory and what we measure on the oscilloscope the book demonstrates many of the key properties of solitons including the inverse scattering method and soliton damping The final part highlights practical applications such as sharp pulse formation and edge sharpening for high speed metrology as well as high frequency generation via NLTL harmonics It describes challenges to realizing a robust soliton oscillator and the stability mechanisms necessary and introduces three prototypes of the circular soliton oscillator using discrete and integrated platforms Solitons R. MacKenzie, M.B. Paranjape, W.J. Zakrzewski, 2000 Solitons were discovered by John Scott Russel in 1834 and have intrigued scientists and mathematicians ever since They have been the subject of a large body of research not only in mathematics and physics but also engineering biology and other disciplines This volume comprises the presentations at an interdisciplinary workshop held at Queen s University in Kingston Ontario It includes chapters on mathematical and numerical aspects of solitons recent developments in string theory and applications of solitons in such areas as nuclear and particle physics cosmology and condensed matter physics Scattering, Two-Volume Set E. R. Pike, Pierre C. Sabatier, 2001-10-09 Scattering is the collision of two objects that results in a change of trajectory and energy For example in particle physics such as electrons photons or neutrons are scattered off of a target specimen resulting in a different energy and direction In the field of electromagnetism scattering is the random diffusion of electromagnetic radiation from air masses is an aid in the long range sending of radio signals over geographic obstacles such as mountains This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium Volume I of *Scattering* will be devoted to basic theoretical ideas approximation methods numerical techniques and mathematical modeling Volume II will be concerned with basic experimental techniques technological practices and comparisons with relevant theoretical work including seismology medical applications meteorological phenomena and

astronomy This reference will be used by researchers and graduate students in physics applied physics biophysics chemical physics medical physics acoustics geosciences optics mathematics and engineering This is the first encyclopedic range work on the topic of scattering theory in quantum mechanics elastodynamics acoustics and electromagnetics It serves as a comprehensive interdisciplinary presentation of scattering and inverse scattering theory and applications in a wide range of scientific fields with an emphasis and details up to date developments Scattering also places an emphasis on the problems that are still in active current research The first interdisciplinary reference source on scattering to gather all world expertise in this technique Covers the major aspects of scattering in a common language helping to widening the knowledge of researchers across disciplines The list of editors associate editors and contributors reads like an international Who s Who in the interdisciplinary field of scattering

New Numerical and Analytical Methods for Nonlinear Partial Differential Equations with Applications in Quantum Physics Mustafa Inc, Xiao-Jun Yang, Devendra Kumar, 2023-11-20 Various numerical and analytical methods have been used to investigate the models of real world phenomena Namely real world models from quantum physics have been investigated by many researchers This Research Topic aims to promote and exchange new and important theoretical and numerical results to study the dynamics of complex physical systems In particular the Research Topic will focus on numerical and analytical methods for nonlinear partial differential equations which have applications for quantum physical systems Authors are encouraged to introduce their latest original research articles The Research Topic will cover but is not limited to the following themes Mathematical methods in physics Representations of Lie groups in physics Quantum fields Advanced numerical methods and techniques for nonlinear partial differential equations Schr dinger classical and fractional operators Conservation laws

Optical Multi-Bound Solitons Le Nguyen Binh, 2018-09-03 Optical Multi Bound Solitons describes the generation and transmission of multi bound solitons with the potential to form the basis of the temporal coding of optical data packets for next generation nonlinear optical systems The book deals with nonlinear systems in terms of their fundamental principles associated phenomena and signal processing applications in contemporary optical systems for communications and laser systems with a touch of mathematical representation of nonlinear equations to offer insight into the nonlinear dynamics at different phases The text not only delineates the strong background physics of such systems but also Discusses the phase evolution of the optical carriers under the soliton envelopes for the generation of multi bound solitons Explains the generation of multi bound solitons through optical fibers Examines new types of multi bound solitons in passive and active optical resonators Conducts bi spectral analyses of multi bound solitons to identify the phase and power amplitude distribution property of bound solitons Presents experimental techniques for the effective generation of bound solitons Optical Multi Bound Solitons provides extensive coverage of multi bound solitons from the dynamics of their formation to their transmission over guided optical media Appendices are included to supplement a number of essential definitions mathematical representations and derivations

making this book an ideal theoretical reference text as well as a practical professional guidebook **Physics Briefs**, 1993

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 **Nonlinear Optics and Applications II** Mario Bertolotti, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Advances in FDTD Computational Electrodynamics** Allen Taflove, Ardavan Oskooi, Steven G. Johnson, 2013 Advances in photonics and nanotechnology have the potential to revolutionize humanity s ability to communicate and compute This book helps readers understand the developments in computational modeling of nanoscale optical microscopy and microchip lithography as well as nanoscale plasmonics and biophotonics **Nonlinear Guided Waves and Their Applications**, 2001 *Optics Letters*, 2002 **Nonlinear Optical Phenomena and Applications** Qihuang Gong, Yiping Cui, Roger A. Lessard, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **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 **Waves Called Solitons** Michel Remoissenet, 2013-04-17 Nonlinearity is a fascinating element of nature whose importance has been appreciated for many years when considering large amplitude wave motions observed in various fields ranging from fluids and plasmas to solid state chemical biological and geological systems Localized large amplitude waves called solitons which propagate without spreading and have particle like properties represent one of the

most striking aspects of nonlinear phenomena Although a wealth of literature on the subject including theoretical and numerical studies is available in good recent books and research journals very little material has found its way into introductory textbooks and curricula This is perhaps due to a belief that nonlinear physics is difficult and cannot be taught at an introductory level to undergraduate students and practitioners Consequently there is considerable interest in developing practical material suitable for students at the lowest introductory level This book is intended to be an elementary introduction to the physics of solitons for students physicists engineers and practitioners We present the modeling of nonlinear phenomena where soliton like waves are involved together with applications to a wide variety of concrete systems and experiments This book is designed as a book of physical ideas and basic methods and not as an up to the minute book concerned with the latest research results The background in physics and the amount of mathematical knowledge assumed of the reader is within that usually accumulated by junior or senior students in physics

Physical Application of the Soliton Theory Flora Chu,1974 *International Workshop Solitons and Applications ; 4* ,1989

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