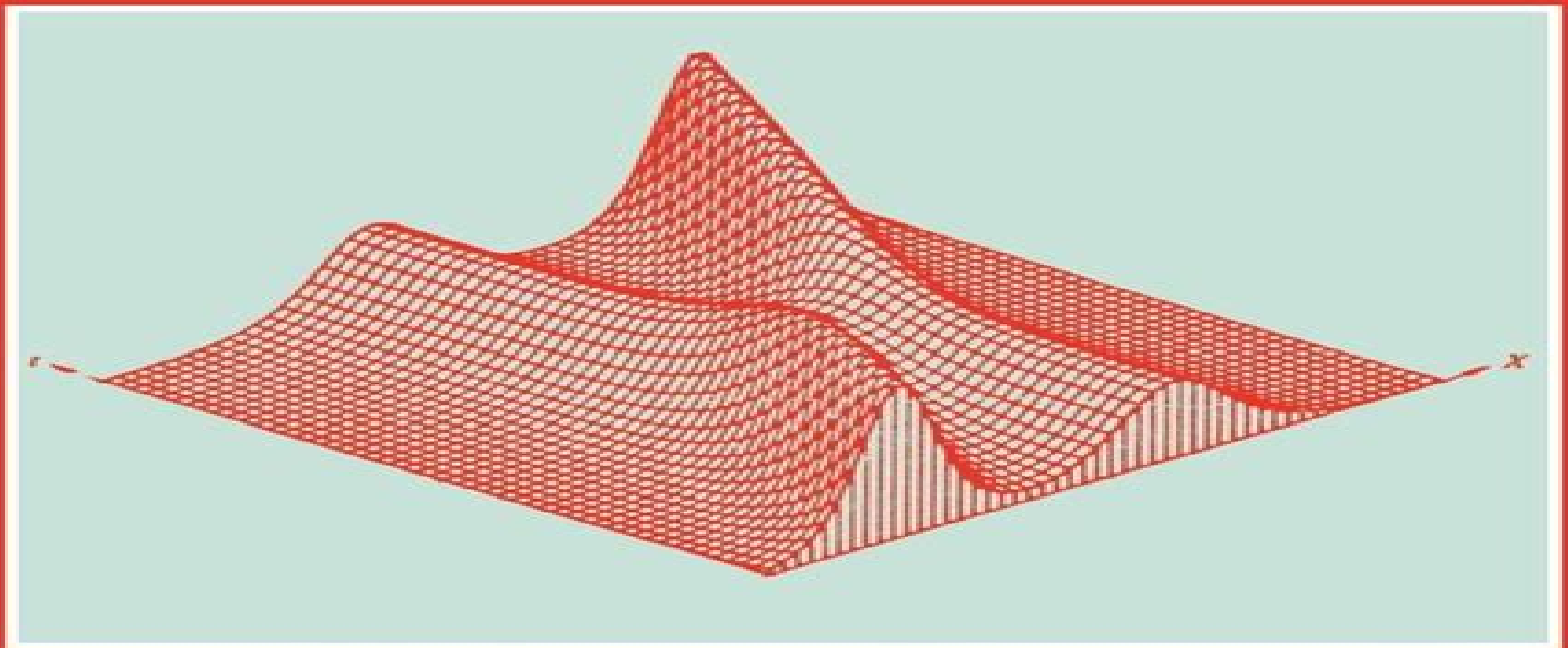


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Solitons An Introduction

Lui Lam



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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

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

Solitons P. G. Drazin, 1983-07-21 A soliton is a localized nonlinear wave of permanent form which may interact strongly with other solitons so that when they separate after the interaction they regain their original forms This textbook is an account of the theory of solitons and of the diverse applications of the theory to nonlinear systems arising in the physical sciences The essence of the book is an introduction to the method of inverse scattering Solitary waves cnoidal waves conservation laws the initial value problem for the Korteweg de Vries equation the Lax method the sine Gordon equation and Backlund transformations are treated The book will be useful for research workers who wish to learn about solitons as well as graduate students in mathematics physics and engineering

The Versatile Soliton Alexandre T. Filippov, 2000-09-21 In this engaging book the concept of the soliton is traced from the beginning of the last century to modern times with its recent applications

Solitons in Optical Fibers Linn F. Mollenauer, James P. Gordon, 2006-03-08 Solitons are waves that retain their form through obstacle and distance Solitons can be found in hydrodynamics nonlinear optics plasma physics and biology Optical solitons are solitary light waves that hold their form over an expansive interval Conservation of this form creates an effective model for long distance voice and data transmission The application of this principle is essential to the technology of wired communications Optical solitons produce crystal clear phone calls cross country and internationally It is because of these that someone on the other end of the phone sounds in the next room It is also pertinent to high speed network information transmittal Mollenauer and Gordon have written the only text that an engineer or graduate student will need to understand this foundation subject in optics Written by Linn Mollenauer and James Gordon who are celebrated for applying optical solitons to telecommunications Combines mathematical developments with well chosen practical examples and design formulas Extensive material on the basic physics of fiber optic transmission and its practical applications

Waves Called Solitons Michel Remoissenet, 2013-04-17 Encouraged by the friendly reception given to the first edition I have preserved its basic form and most of the details Apart from some corrections minor changes and addition of references where it was necessary I have made the following changes Chapter 1 was expanded by a discussion of the discovery of soli tons in the field of electromagnetic waves and optics A new section devoted to nonlinear transmission lines and their applications in the microwave range has been added to Chap 3 It seems to me that it was

important to describe laboratory experiments on modulational instability and subsequent generation of solitons both in electrical transmission lines and in deep water in Chaps 4 and 5 A description of a very simple experimental pocket version of the mechanical transmission line has been included in Chap 6 Such a versatile and useful device should stimulate a practical approach to soliton physics Chapter 7 was completed by a short presentation of some recent experimental results on discrete Josephson transmission lines A discussion of the experimental modulational instability of coupled optical waves and a simple look at quantum solitons were added to Chap 8 in order to introduce the reader to such remarkable topics Of the many people who made valuable comments on the first edition I am particularly grateful to M Dragoman Y S Kivshar and A W Snyder I would like to thank R S MacKay whose corrections and suggestions helped refine the manuscript of this second edition

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

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

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

Advances in Nonlinear Optics Xianfeng Chen,Guoquan Zhang,Heping Zeng,Qi Guo,Weilong She,2014-12-16 This book presents an overview of the state of the art of the developing topic of nonlinear optics with contributions from leading experts in the field in China ranging from weak light nonlinear optics ultrafast nonlinear optics to electro optical theory and applications In the past decade nonlinear optics has evolved into many different branches depending on the form of the material used for studying the nonlinear phenomena The growth of research in nonlinear optics is closely linked to the rapid technological advances that have occurred in related fields such as ultra fast phenomena and optical communications Nonlinear optics activities range from the fundamental studies of the interaction between matter and radiation to the development of devices components and systems of tremendous commercial interest for widespread applications in optical telecommunications medicine and biotechnology This book reviews the development of some nonlinear optics researches in China not only the discovery of new principles but also potential applications of nonlinear optics for various industries

Aspects of Differential Geometry III Esteban Calviño-Louzao,Eduardo García-Río,Peter Gilkey,JeongHyeong Park,Ramón Vázquez-Lorenzo,2022-05-31 Differential Geometry is a wide field We have chosen to

concentrate upon certain aspects that are appropriate for an introduction to the subject we have not attempted an encyclopedic treatment Book III is aimed at the first year graduate level but is certainly accessible to advanced undergraduates It deals with invariance theory and discusses invariants both of Weyl and not of Weyl type the Chern Gauss Bonnet formula is treated from this point of view Homothety homogeneity local homogeneity stability theorems and Walker geometry are discussed Ricci solitons are presented in the contexts of Riemannian Lorentzian and affine geometry

Complexity In Physics And Technology Rui Vilela Mendes, Manuel Da Silva Garrido, 1993-01-08 A system is loosely defined as complex if it is composed of a large number of elements interacting with each other and the emergent global dynamics is qualitatively different from the dynamics of each one of the parts The global dynamics may be either ordered or chaotic and among the most interesting emergent global properties are those of learning and adaptation Complex systems in the above sense appear in many fields ranging from physics and technology to life and social sciences Research in complex systems involves therefore a wide range of topics studied in seemingly disparate fields This calls for some effort to develop general principles and a common language so that tools developed in one field may be put to use in other fields By collecting a few surveys of complex systems studies in physics and in technology and emphasizing their common mechanisms and interrelationships this book attempts to contribute to the development of a common language in the sciences of complexity Topics covered include Integrated design in aeronautics time and space decomposition of complex structures complexity in electrical power networks earthquake behaviour of structures signal processing fiability use of unstable orbits in astrodynamics dynamics of coupled oscillators fuzziness dark and bright solitons neural networks chaos and parametric perturbations chaotic fluid dynamics early vision and image restoration stochastic processes in automated production lines

Introduction to Nonlinear Physics Lui Lam, 1997 This textbook provides an introduction to the new science of nonlinear physics for advanced undergraduates beginning graduate students and researchers entering the field The chapters by pioneers and experts in the field share a unified perspective Nonlinear science developed out of the increasing ability to investigate and analyze systems for which effects are not simply linear functions of their causes it is associated with such well known code words as chaos fractals pattern formation solitons cellular automata and complex systems Nonlinear phenomena are important in many fields including dynamical systems fluid dynamics materials science statistical physics and paritcel physics The general principles developed in this text are applicable in a wide variety of fields in the natural and social sciences The book will thus be of interest not only to physicists but also to engineers chemists geologists biologists economists and others interested in nonlinear phenomena Examples and exercises complement the text and extensive references provide a guide to research in the field

Solitons Philip G. Drazin, 1986

Interdisciplinary Mathematics: The geometry of nonlinear differential equations, Bäcklund transformations, and solitons, pt.B Robert Hermann, 1973

Waves Called Solitons M. Remoissenet, 1996 This book is an elementary introduction to the fascinating

world of waves called solitons. These large amplitude waves which can propagate over long distances without dispersing and which display particle like properties are one of the most striking manifestations of nonlinearity. The main concepts are introduced at an elementary level accessible to the undergraduate. In a self contained and interdisciplinary whole such topics as electrical hydrodynamic chemical and optical solitons are discussed. Many of the author's choices of emphasis have been made with experiments in mind several experiments can readily be performed by the reader. This book is not meant for specialists but for students physicists engineers and practitioners. The chapters are independently written in order that the reader should quickly find the required information. The second edition of this highly praised book has new material especially on nonlinear transmission lines on various forms of modulational instabilities and on quantum optical solitons.

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