Principles

Multidimensional Solitons
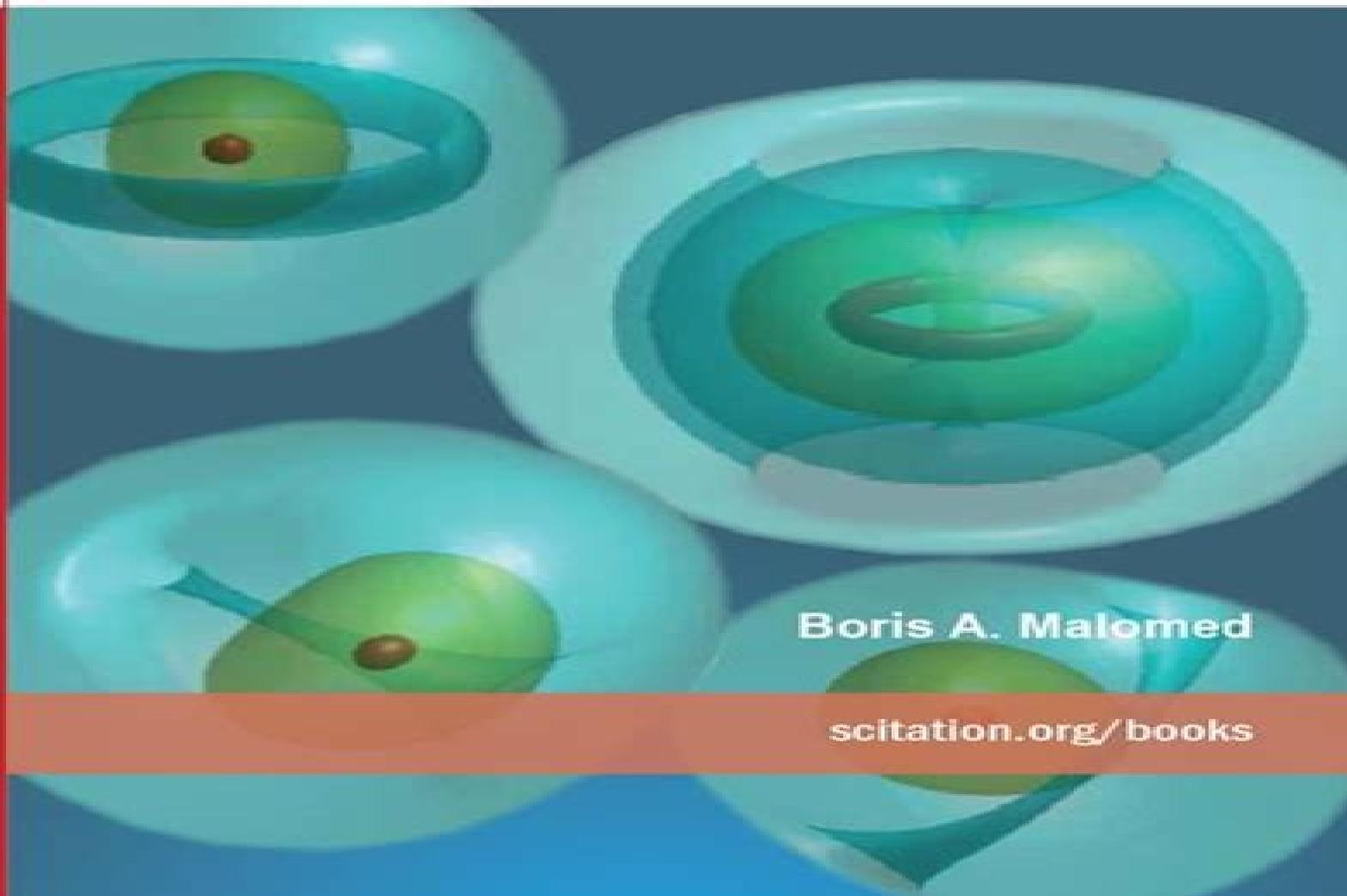
Boris A. Malomed

Basic Of Solitons

Thierry Dauxois,Michel Peyrard

Basic Of Solitons:

Solitons P. G. Drazin,R. S. Johnson,1989-02-09 This textbook is an introduction to the theory of solitons in the physical sciences **Basic Methods Of Soliton Theory** Ivan V Cherednik,1996-08-22 In the 25 years of its existence Soliton Theory has drastically expanded our understanding of integrability and contributed a lot to the reunification of Mathematics and Physics in the range from deep algebraic geometry and modern representation theory to quantum field theory and optical transmission lines The book is a systematic introduction to the Soliton Theory with an emphasis on its background and algebraic aspects It is the first one devoted to the general matrix soliton equations which are of great importance for the foundations and the applications Differential algebra local conservation laws B cklund Darboux transforms algebraic geometry theta and Baker functions and the inverse scattering method Riemann Hilbert problem with well grounded preliminaries are applied to various equations including principal chiral fields Heisenberg magnets Sin Gordon and Nonlinear Schr dinger equation **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 **Solitons in Optical Fiber Systems** Mario F. S. Ferreira,2022-07-20 Solitons in Optical Fiber Systems Discover a robust exploration of the main properties and behaviors of solitons in fiber systems In Solitons in Optical Fiber Systems distinguished researcher Dr M rio F S Ferreira delivers a thorough treatment of the main characteristics of solitons in optical fiber communication systems and fiber devices paying special attention to stationary and pulsating dissipative soliton pulses The book discusses the technical aspects associated with the physical background and the theoretical description of soliton characteristics under different conditions The author employs numerical analyses and variational approaches to describe soliton evolution and describes the phenomenon of supercontinuum generation and various solitonic effects observed in highly nonlinear fibers like photonic crystal fibers Readers will learn about different applications of fiber solitons in transmission systems fiber lasers couplers and pulse compression schemes as well as complex Ginzburg Landau equations which are used to model different types of dissipative systems The book also includes A thorough introduction to solitons including the linear and nonlinear effects of a wave the discovery of solitary waves and the discovery of solitons in optical fibers An exploration of fiber dispersion and nonlinearity including optical fiber dispersion the pulse propagation equation and the impact of fiber dispersion Practical discussions of nonlinear effects in optical fibers including self phase modulation cross phase modulations four wave mixing and stimulated raman scattering In depth treatments of solitons in optical fibers including modulation instability dark solitons bistable solitons XPM paired solitons and the variational approach Perfect for senior undergraduate and graduate

students in courses dealing with fiber optics technology Solitons in Optical Fiber Systems is also an ideal resource for engineers and technicians in the fiber optics industry and researchers of nonlinear fiber optics   *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   **Glimpses of Soliton Theory** Alex Kasman,2010 Solitons are explicit solutions to nonlinear partial differential equations exhibiting particle like behavior This is quite surprising both mathematically and physically Waves with these properties were once believed to be impossible by leading mathematical physicists yet they are now not only accepted as a theoretical possibility but are regularly observed in nature and form the basis of modern fiber optic communication networks Glimpses of Soliton Theory addresses some of the hidden mathematical connections in soliton theory which have been revealed over the last half century 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 and surprisingly simple explanation of something seemingly miraculous Assuming only multivariable calculus and linear algebra as prerequisites this 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 Equation 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 this advanced subject accessible to any undergraduate math major numerous worked examples and thought provoking but not overly difficult exercises footnotes and lists of suggested readings to guide the interested reader to more information and use of the software package Mathematica to facilitate computation and to animate the solutions under study This book provides the reader with a unique glimpse of the unity of mathematics and could form the basis for a self study one semester

special topics or capstone course Solitons are explicit solutions to nonlinear partial differential equations exhibiting particle like behavior This is quite surprising both mathematically and physically Waves with these properties were once believed to be impossible by leading mathematical physicists yet they are now not only accepted as a theoretical possibility but are regularly observed in nature and form the basis of modern fiber optic communication networks Glimpses of Soliton Theory addresses some of the hidden mathematical connections in soliton theory which have been revealed over the last half century 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 and surprisingly simple explanation of something seemingly miraculous Assuming only multivariable calculus and linear algebra as prerequisites this 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 Equation 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 this advanced subject accessible to any undergraduate math major numerous worked examples and thought provoking but not overly difficult exercises footnotes and lists of suggested readings to guide the interested reader to more information and use of the software package Mathematica to facilitate computation and to animate the solutions under study This book provides the reader with a unique glimpse of the unity of mathematics and could form the basis for a self study one semester special topics or capstone course *Slowly Varying Oscillations And Waves: From Basics To Modernity* Lev Ostrovsky,2022-02-23 The beauty of the theoretical science is that quite different physical biological etc phenomena can often be described as similar mathematical objects by similar differential or other equations In the 20th century the notion of theory of oscillations and later theory of waves as unifying concepts meaning the application of similar methods and equations to quite different physical problems came into being In the variety of applications quite possibly in most of them the oscillatory process is characterized by a slow as compared with the characteristic period variation of its parameters such as the amplitude and frequency The same is true for the wave processes This book describes a variety of problems associated with oscillations and waves with slowly varying parameters Among them the nonlinear and parametric resonances self synchronization attenuated and amplified solitons self focusing and self modulation and reaction diffusion systems For oscillators the physical examples include the van der Pol oscillator and a pendulum models of a laser For waves examples are taken from oceanography nonlinear optics acoustics and biophysics The last chapter of the book describes more formal asymptotic perturbation schemes for the classes of oscillators and waves considered in all preceding chapters **Optical Soliton Control and its Management** Dr. N. Prathap ,2021-08-11 INTRODUCTION TO OPTICAL FIBER Recent inventions and discoveries have revolutionized the telecommunication industry but the future enhancement will based on the transmission and reception of multimedia in an efficient and effective way In present optical fibers are used

instead of copper cables which is very helpful to transform plenty of information with high speed and high range The optical fiber cable gives infinite bandwidth for media transmission with low loss The optical fiber is a cylindrical in shape and made up of low loss dielectric material such as silica glass An optical or light signal communication is a system which use light pulse as the carrier for transmission and reception of signals The silica glass fiber has low loss higher bandwidth and high speed compare to normal copper cable communication Nowadays the copper coaxial cables are replaced by optical fiber due to low loss in fiber and offers infinite bandwidth with low latency Thus the fiber plays a major role in today s global application such as Telecommunication defence medical networking industrial etc **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 Backl nd 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 Many Degrees of Freedom in Field Theory L. Streit,2013-03-09 Volumes 30 and 31 of this series dealing with Many Degrees of Freedom contain the proceedings of the 1976 International Summer Institute of Theoretical Physics held at the university of Bielefeld from August 23 to September 4 1976 This institute was the eighth in a series of summer schools devoted to particle physics and organized by universities and research institutes in the Federal Republic of Germany Many degrees of freedom and collective phenomena play a critical role in the description and understanding of elementary particles The lectures in this volume were intended to display how these structures occur in various recent developments of mathematical physics Lectures ranged from classical nonlinear field theory over classical soliton models constructive quantum field theory with soliton solutions and gauge models to the recent unified description of renormalization group tech niques in probabilistic language and to quantum statisti cal dynamics in terms of derivations The Institute took place at the Center for Inter disciplinary Research of the University of Bielefeld On behalf of all participants it is a pleasure to thank the officials and the administration of the Center for their cooperation and help before and during the Insti tute Special thanks go to V C Fulland M Kamper and A Kottenkamp for their rapid and competent preparation of the manuscripts Basic Properties of Semiconductors Peter Theodore Landsberg,1992

Foundations for Guided-Wave Optics Chin-Lin Chen,2006-12-12 A classroom tested introduction to integrated and fiber optics This text offers an in depth treatment of integrated and fiber optics providing graduate students engineers and scientists with a solid foundation of the principles capabilities uses and limitations of guided wave optic devices and systems In addition to the transmission properties of dielectric waveguides and optical fibers this book covers the principles of

directional couplers guided wave gratings arrayed waveguide gratings and fiber optic polarization components The material is fully classroom tested and carefully structured to help readers grasp concepts quickly and apply their knowledge to solving problems Following an overview including important nomenclature and notations the text investigates three major topics Integrated optics Fiber optics Pulse evolution and broadening in optical waveguides Each chapter starts with basic principles and gradually builds to more advanced concepts and applications Compelling reasons for including each topic are given detailed explanations of each concept are provided and steps for each derivation are carefully set forth Readers learn how to solve complex problems using physical concepts and simplified mathematics Illustrations throughout the text aid in understanding key concepts while problems at the end of each chapter test the readers grasp of the material The author has designed the text for upper level undergraduates graduate students in physics and electrical and computer engineering and scientists Each chapter is self contained enabling instructors to choose a subset of topics to match their particular course needs Researchers and practitioners can also use the text as a self study guide to gain a better understanding of photonic and fiber optic devices and systems   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 soli ton 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   **Chaos, Solitons, and Fractals** ,1995   **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   *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 in Mathematics and Physics** Alan C. Newell,1985-06-01 A discussion of the soliton focusing on the properties that make it physically ubiquitous and the soliton equation mathematically miraculous   **Solitons** S. E. Trullinger,Vladimir Evgen′evich Zakharov,Valeriĭ Leonidovich Pokrovskiĭ,1986 In the twenty years since Zabusky and Kruskal coined the term soliton this concept changed the outlook on certain types of nonlinear phenomena and found its way into all branches of physics The present volume deals with a great variety of applications of the new concept in condensed matter physics which is particularly reached in experimentally observable occurrences The presentation is not centred around the mathematical aspects the emphasis is on the physical nature of the nonlinear phenomena occurring in particular situations With its emphasis on concrete mostly experimentally verifiable cases Solitons constitutes a very readable and instructive introduction to the subject as well as an up to date account of current developments in a field of research reaching maturity   Solitons in Molecular Systems Aleksandr Sergeevich Davydov,1985-08-31 Approach your problems from the It isn t that they can t see the end and begin with the answers solution It is that they can t Then one day perhaps you will see the problem find the final question G K Chesterton The Scandal of The Hermit Clad in Crane Father Brown The Point of a Pin Feathers in R van Gulik s The Chinese Maze Murders Growing specialization and diversification have brought a host of mono graphs and textbooks on increasingly topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical pro gramming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electric engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as complete integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classifica tion schemes The draw upon widely different sections of mathematics   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

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