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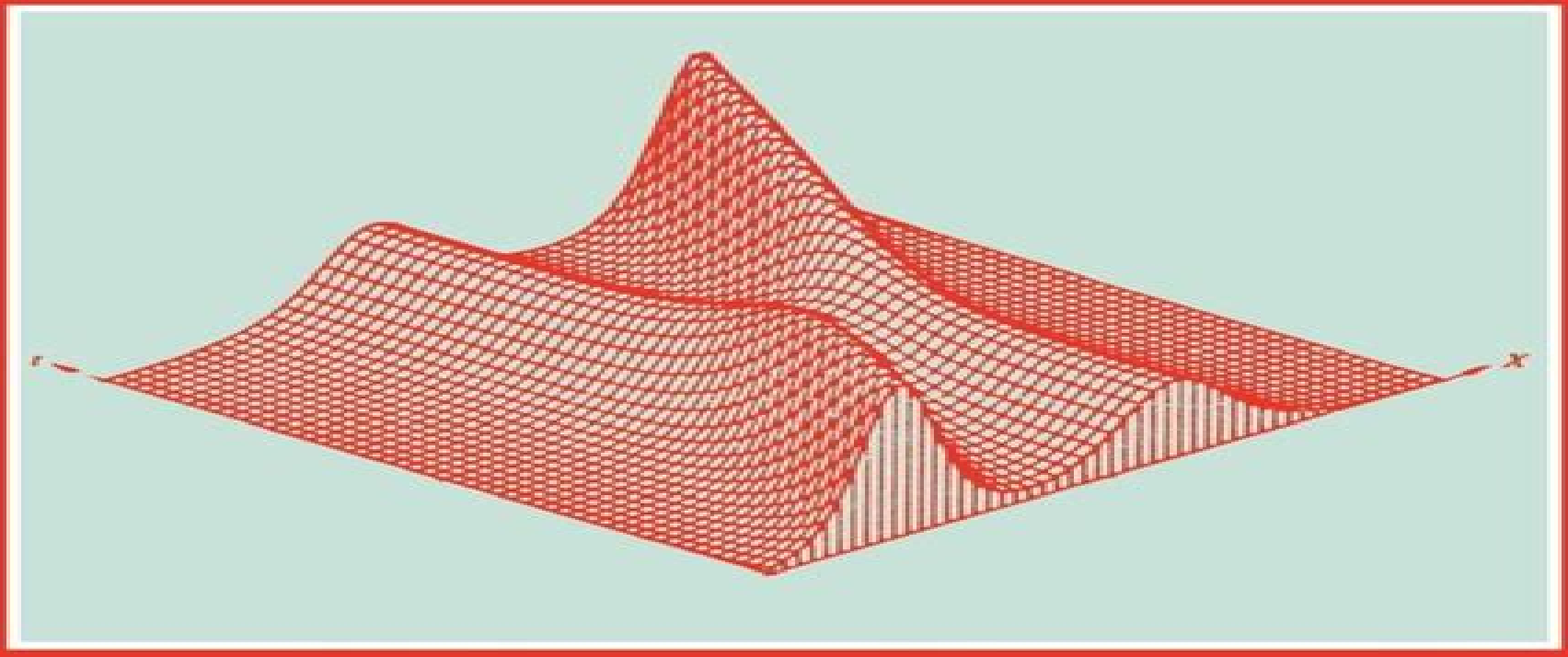

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Solitons An Introduction

Mário F. S. Ferreira

Solitons An Introduction:

Solitons P. G. Drazin,R. S. Johnson,1989-02-09 This textbook is an introduction to the theory of solitons in the physical sciences Solitons P. G. Drazin,R. S. Johnson,1989-02-09 Solitons An Introduction discusses the theory of solitons and its diverse applications to nonlinear systems that arise in the physical sciences Drazin and Johnson explain the generation and properties of solitons introducing the mathematical technique known as the Inverse Scattering Tranform Their aim is to present the essence of inverse scattering clearly rather than rigorously or completely Thus the prerequisites are merely what is found in standard courses on mathematical physics and more advanced material is explained in the text with useful references to further reading given at the end of each chapter Worked examples are frequently used to help the reader follow the various ideas and the exercises at the end of each chapter not only contain applications but also test understanding Answers or hints to their solution are given at the end of the book Sections and exercises that contain more difficult material are indicated by asterisks Solitons P. G. Drazin,R. S. Johnson,1989-02-09 Solitons An Introduction discusses the theory of solitons and its diverse applications to nonlinear systems that arise in the physical sciences Drazin and Johnson explain the generation and properties of solitons introducing the mathematical technique known as the Inverse Scattering Tranform Their aim is to present the essence of inverse scattering clearly rather than rigorously or completely Thus the prerequisites are merely what is found in standard courses on mathematical physics and more advanced material is explained in the text with useful references to further reading given at the end of each chapter Worked examples are frequently used to help the reader follow the various ideas and the exercises at the end of each chapter not only contain applications but also test understanding Answers or hints to their solution are given at the end of the book Sections and exercises that contain more difficult material are indicated by asterisks 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** Mohamed Atef Helal,2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schr dinger NLS Korteweg de Vries Burger s KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies *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 **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

Introductory Guide to Partial Differential Equations Sameer Kulkarni,2025-02-20 Introductory Guide to Partial Differential Equations is an accessible and comprehensive introduction to Partial Differential Equations PDEs for undergraduate students We provide a solid foundation in the theory and applications of PDEs catering to students in mathematics engineering physics and related fields We present fundamental concepts of PDEs in a clear and engaging manner emphasizing both theoretical understanding and practical problem solving skills Starting with basic concepts such as classification of PDEs boundary and initial conditions and solution techniques we gradually progress to advanced topics including Fourier series separation of variables and the method of characteristics Real world applications of PDEs are woven throughout the book demonstrating the relevance of this mathematical theory in fields such as heat conduction fluid dynamics quantum mechanics and finance Numerous examples exercises and applications are included to reinforce learning and encourage active engagement with the material Whether you re preparing for further study in mathematics or seeking to apply PDEs in your chosen field this book equips you with the knowledge and skills necessary to tackle a wide range of problems involving partial differential equations We hope this text will inspire curiosity and confidence in approaching the rich and diverse world of PDEs The Versatile Soliton Alexandre T. Filippov,2010-05-18 If you have not already heard about solitons you will sooner or later encounter them The soliton a solitary wave impulse preserving its shape and strikingly similar to a particle is one of the most fascinating and beautiful phenomena in the physics of nonlinear waves In this engaging book the concept of the soliton is traced from the beginning of the last century to modern times with recent applications in biology oceanography solid state physics electronics elementary particle physics and cosmology The main concepts and results of theoretical physics related to solitons can be explained without using much mathematics Indeed on the descriptive and historical level only some knowledge of high school physics and mathematics is needed At a higher level for understanding the elementary theory of oscillations and waves the reader can intuit much from the numerous illustrations and perhaps skip the formulas presented But to appreciate the deep connections in this book between apparently different and diverse phenomena and ideas the reader must be able to follow elementary mathematical computations Still more advanced mathematics is required for the appendices **Optical Solitons** Yuri S. Kivshar,Govind P. Agrawal,2003-06-12 The current research into solitons and their use in fiber optic communications is very important to the future of communications Since the advent of computer networking and high speed data transmission technology people have been striving to develop faster and more reliable communications media Optical pulses tend to broaden over relatively short

distances due to dispersion but solitons on the other hand are not as susceptible to the effects of dispersion and although they are subject to losses due to attenuation they can be amplified without being received and re transmitted This book is the first to provide a thorough overview of optical solitons The main purpose of this book is to present the rapidly developing field of Spatial Optical Solitons starting from the basic concepts of light self focusing and self trapping It will introduce the fundamental concepts of the theory of nonlinear waves and solitons in non integrated but physically realistic models of nonlinear optics including their stability and dynamics Also it will summarize a number of important experimental verification of the basic theoretical predictions and concepts covering the observation of self focusing in the earlier days of nonlinear optics and the most recent experimental results on spatial solitons vortex solitons and soliton interaction spiraling Introduces the fundamental concepts of the theory of nonlinear waves and solitons through realistic models Material is based on authors years of experience actively working in and researching the field Summarizes the most important experimental verification of the basic theories predictions and concepts of this ever evolving field from the earliest studies to the most recent

Dissipative Optical Solitons Mário F. S. Ferreira,2022-09-23 This book introduces the basic concept of a dissipative soliton before going to explore recent theoretical and experimental results for various classes of dissipative optical solitons high energy dissipative solitons and their applications and mode locked fiber lasers A soliton is a concept which describes various physical phenomena ranging from solitary waves forming on water to ultrashort optical pulses propagating in an optical fiber While solitons are usually attributed to integrability in recent years the notion of a soliton has been extended to various systems which are not necessarily integrable Until now the main emphasis has been given to well known conservative soliton systems but new avenues of inquiry were opened when physicists realized that solitary waves did indeed exist in a wide range of non integrable and non conservative systems leading to the concept of so called dissipative optical solitons Dissipative optical solitons have many unique properties which differ from those of their conservative counterparts For example except for very few cases they form zero parameter families and their properties are completely determined by the external parameters of the optical system They can exist indefinitely in time as long as these parameters stay constant These features of dissipative solitons are highly desirable for several applications such as in line regeneration of optical data streams and generation of stable trains of laser pulses by mode locked cavities **Optical Solitons** J. R. Taylor,1992-04-23 Provides an overview of our current understanding of optical soliton properties introducing the subject for students and reviewing the most recent research **Optical Solitons** Kuppuswamy Porsezian,Valakkattil Chako Kuriakose,2008-01-11 Optical Solitons represent one of the most exciting and fascinating concepts in modern communications arousing special interest due to their potential applications in optical fibre communication This volume focuses on the explicit integration of analytical and experimental methods in nonlinear fibre optics and integrated optics It covers all important recent technical issues in optical soliton communication For example individual chapters are devoted to topics such as dispersion

management and fibre Bragg grating All authors are leading authorities in their fields *Introduction to Nonlinear Physics* Lui Lam,2003-11-14 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 **Rossby Vortices, Spiral Structures, Solitons** Mikhail V. Nezlin,Evgenii N. Snezhkin,2013-11-11 This book can be looked upon in more ways than one On the one hand it describes strikingly interesting and lucid hydrodynamic experiments done in the style of the good old days when the physicist needed little more than a piece of string and some sealing wax On the other hand it demonstrates how a profound physical analogy can help to get a synoptic view on a broad range of nonlinear phenomena involving self organization of vortical structures in planetary atmo spheres and oceans in galaxies and in plasmas In particular this approach has elucidated the nature and the mechanism of such grand phenomena as the Great of galaxies A number of our Red Spot vortex on Jupiter and the spiral arms predictions concerning the dynamics of spiral galaxies are now being confirmed by astronomical observations stimulated by our experiments This book is based on the material most of which was accumulated during 1981 88 in close cooperation with our colleagues experimenters from the Plasma Physics Department of the Kurchatov Atomic Energy Institute S V Antipov A S Trubnikov AYu Rylov AV Khutoretsky and astrophysics theoreticians from the Astronomical Council of the USSR Academy of Sciences AM Frid man and from the Volgograd State University AG Morozov To all of them we wish to express our gratitude Whenever we speak of our experiments the participation of the entire team is implied *Nonlinear Waves and Solitons on Contours and Closed Surfaces* Andrei Ludu,2007-09-09 Everything the Power of the World does is done in a circle The sky is round and I have heard that the earth is round like a ball and so are all the stars The wind in its greatest power whirls Birds make their nests in circles for theirs is the same religion as ours The sun comes forth and goes down again in a circle The moon does the same and both are round Even the seasons form a great circle in their changing and always come back again to where they were The life of a man is a circle from childhood to childhood And so it is everything where power moves Black Elk 1863 1950 Nonlinearity is a captivating manifestation of the observable Universe whose importance has increased over the decades and has found more and more elds of application ranging from elementary particles nuclear physics biology wave dynamics at any

scale uids plasmas to astrophysics The central character of this 172 year old story is the soliton Namely a localized pulse traveling without spreading and having particle like properties plus an in nite number of conservation laws associated to its dynamics In general solitons arise as exact solutions of approximative models There are di ent explanation at di erent levels for the existence of solitons From the experimentalist point of view solitons can be created if the propagation c gurationislongenough narrowenough likelongandshallowchannels ber optics electric lines etc *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 Polarization Dynamics of Mode-Locked Fiber Lasers Sergey V. Sergeyev,Chengbo Mou,2023-04-20 This book provides a comprehensive review of the latest research on the science technology and applications of mode locked fiber lasers generating pulse trains with the evolving state of polarization at time scales ranging from a few pulse widths to 10 000 laser cavity round trip times It supports readers with a timely source of information on the current novel scientific concepts and cost effective schematics in addition to an overview of the feasible applications The book aims to demonstrate for the nonlinear science community a newly emerging field of nonlinear science and so stimulates the development of new theoretical approaches and opens new horizons for the photonics community by pushing boundaries of the existing laser systems towards new applications The new classes of optical sources and photonic devices explored in this book will be relevant with applications to other fields including medicine bio photonics metrology and environmental safety Key Features Provides a cutting edge review of the latest emerging science technology and applications in the field Tackles a topic with fast growing interest in USA Europe and China Explores the simple and cheap design and tests of lasers and outlines the feasible applications

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