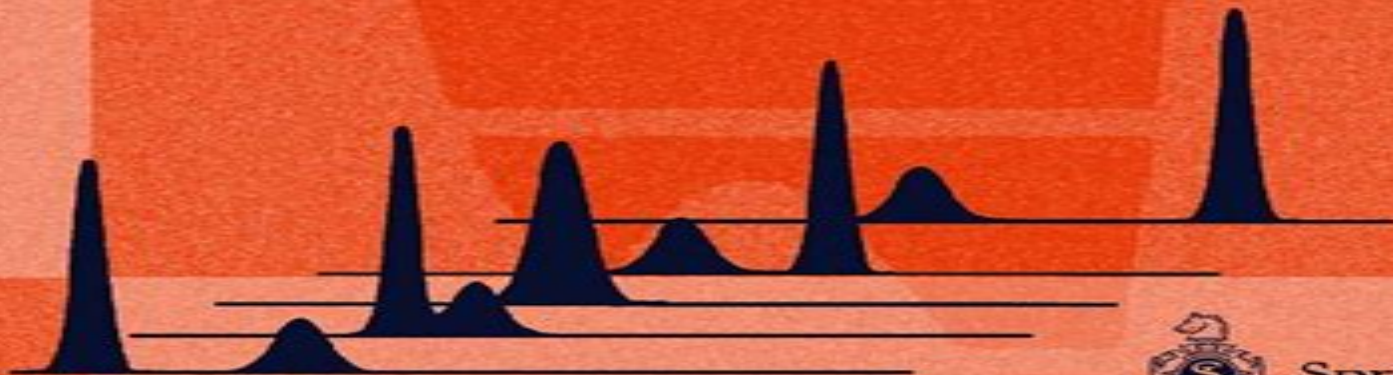


Michel Remoissenet

Waves Called Solitons

Concepts and Experiments

Third Revised and Enlarged Edition



Springer

Waves Called Solitons Concepts And Experiments Advanced Texts In Physics

Sergey Leble, Anna Perelomova



Waves Called Solitons Concepts And Experiments Advanced Texts In Physics:

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

Waves Called Solitons Michel Remoissenet, 2013-03-09 In the third edition the presentation of new topics has been deliberately kept simple for pedagogical purposes Chapter 1 was completed by references to the tidal bore and magnetic envelope solitons Two new sections devoted to magnetic envelope solitons and signal processing with solitons have been added to Chap 4 Short comments on models describing blood pressure pulse propagation in terms of solitons were added to chapter 5 A description of a new mechanical transmission line with two equilibrium states has been included in Chap 6 Such an analog device is useful to illustrate the properties of kink solitons and to observe solitary waves with a compact shape called compactons New references concerning recent advances in experimental techniques and lattice effects were added to Chap 7 In Chap 8 a short introduction to spatial optical solitons in continuous and discrete systems was included Chapter 9 was completed by new sections devoted to nonlinear lattice models and energy localization The concepts of self trapped states and intrinsic localized modes or discrete breathers are discussed Different analog chains which make it possible to observe the characteristic features of discrete breathers are described Contrary to previous chapters where we have considered reversible or conservative systems where solitons can exist owing to the dynamical balance between linear dispersion and nonlinearity Chapter 11 which is a new chapter is devoted to irreversible systems where nonlinearity can balance the effects of dissipation leading to diffusing solitary waves or diffusive solitons

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

Nonlinear Dynamics, Volume 1 Gaetan Kerschen, 2018-06-06 Nonlinear Dynamics Volume 1 Proceedings of the 36th IMAC A Conference and Exposition on Structural Dynamics 2018 the first volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Nonlinear Dynamics including papers on Nonlinear System Identification Nonlinear Modeling Simulation Nonlinear Reduced order Modeling Nonlinearity in Practice Nonlinearity in Aerospace Systems Nonlinearity in Multi Physics Systems Nonlinear Modes and Modal Interactions Experimental Nonlinear Dynamics

Understanding the Discrete Element Method Hans-Georg Matuttis, Jian Chen, 2014-05-12 Gives readers a more thorough understanding of DEM and equips researchers for independent work and an ability to judge methods related to simulation of polygonal particles Introduces DEM from the fundamental concepts theoretical mechanics and solidstate physics with 2D and 3D simulation methods for polygonal particles Provides the fundamentals of coding discrete element method DEM requiring little advance knowledge of granular matter or numerical simulation Highlights the numerical tricks and pitfalls that are usually only realized after years of experience with relevant simple experiments as applications Presents a logical approach starting with the mechanical and physical bases followed by a description of the techniques and finally their applications Written by a key author presenting ideas on how to model the dynamics of angular particles using polygons and polyhedral Accompanying website includes MATLAB Programs providing the simulation code for two dimensional polygons Recommended for researchers and graduate students who deal with particle models in areas such as fluid dynamics multi body engineering finite element methods the geosciences and multi scale physics

The Dynamical Projectors Method Sergey Leble, Anna Perelomova, 2018-03-12 The dynamical projectors method proves to reduce a multicomponent problem to the simplest one component problem with its solution determined by specific initial or boundary conditions Its universality and application in many different physical problems make it particularly useful in hydrodynamics electrodynamics plasma physics and boundary layer problems A great variety of underlying mechanisms are included making this book useful for those working in wave theory hydrodynamics electromagnetism and applications The authors developed a universal and elegant tool dynamical projector method Using this method for very complicated hydro thermodynamic and electrodynamics

problem settings they were able to get a lot of interesting analytical results in areas where before often just numerical methods were applicable L A Bordag University of Applied Sciences Zittau Grlitz Zittau Germany The book is intended for professionals working in various fields of linear and nonlinear mathematical physics partial differential equations and theoretical physics The book is written clearly and in my opinion its material will be useful and easy to understand for professionals and for students familiar with ordinary and partial differential equations Sergey Dobrokhotoov Russian Academy of Sciences Moscow Russia Advanced Electronic Circuits Mingbo Niu,2018-06-13 This research book volume offers an important learning opportunity with insights into a variety of emerging electronic circuit aspects such as new materials energy harvesting architectures and compressive sensing technique Advanced circuit technologies are extremely powerful and developed rapidly They change industry They change lives And we know they can change the world The exhibition on these new and exciting topics will benefit readers in related fields *Applied Mechanics Reviews* ,1996 American Journal of Physics ,1995 *Physics Briefs* ,1994 *Optics and Spectroscopy* ,1995 *International Books in Print* ,1991

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 **Wave Physics** Stephen Nettel,2014-03-12 This textbook gives a detailed explanation of waves and oscillations in classical physics These classical phenomena are dealt with at a more advanced level than is customary for second year courses All aspects of classical wave physics are presented including the mathematical and physical basis needed for extended understanding Finally several chapters are devoted to important topics in current wave physics Special attention is given to nonlinear waves solitons chaotic behavior and associated phenomena The new edition contains improvements such as full development of Greens functions a broadening of the treatment of wave mechanics and a closer integration with classical mechanics plus more examples and problems Wave Physics Stephen Nettel,2008-11-21 This textbook gives a detailed explanation of waves and oscillations in classical physics These classical phenomena are dealt with at a more advanced level than is customary for second year courses All aspects of classical wave physics are presented

including the mathematical and physical basis needed for extended understanding Finally several chapters are devoted to important topics in current wave physics Special attention is given to nonlinear waves solitons chaotic behavior and associated phenomena The new edition contains improvements such as full development of Greens functions a broadening of the treatment of wave mechanics and a closer integration with classical mechanics plus more examples and problems

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 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 Transform 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 in Mathematics and Physics Alan C. Newell, 1985-06-01 The soliton is a dramatic concept in nonlinear science What makes this book unique in the treatment of this subject is its focus on the properties that make the soliton physically ubiquitous and the soliton equation mathematically miraculous Here on the classical level is the entity field theorists have been postulating for years a local traveling wave pulse a lump like coherent structure the solution of a field equation with remarkable stability and particle like properties It is a fundamental mode of propagation in gravity driven surface and internal waves in atmospheric waves in ion acoustic and Langmuir waves in plasmas in some laser waves in nonlinear media and in many biologic contexts such as alpha helix proteins

Solitons Matthew C. Williams, 2013 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 In this book the authors discuss the interactions and theoretical and experimental challenges of solitons Topics include soliton motion of electrons and its physical properties in coupled electron phonon systems and ionic crystals soliton excitations and its experimental evidence in molecular crystals shapes and dynamics of semi discrete solitons in arrayed and stacked waveguiding systems and more

Oscillations and Waves Fritz K. Kneubühl, 2012-11-30 This very comprehensive and practical textbook presents a clear systematic and

comprehensive introduction to the relevant mathematics and physics of linear and nonlinear oscillations and waves It explains even the most complicated cases clearly with numerous illustrations for further clarification

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