

# **SOLITONS AND PARTICLES**

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# Solitons And Particles

**Thierry Dauxois, Michel Peyrard**



## **Solitons And Particles:**

Solitons and Particles Claudio Rebbi, G. Soliani, 1984      **Solitons And Particles** Giulio Soliani, 1984-12-01 This is the most up to date book on solitons and is divided into two parts Part 1 Detailed introductory lectures on different aspects of solitons plus lectures on the mathematical aspects on this subject Part 2 Is a collection of reprints on mathematical theories of solitons solitons in field theory solitons as particles and their properties especially topological and physical properties This book is aimed at a wide audience of physicists and mathematicians It is an ideal reference book for young researchers and graduate students      *Solitons* P. G. Drazin, R. S. Johnson, 1989-02-09 This textbook is an introduction to the theory of solitons in the physical sciences      **Geometry, Particles, and Fields** Bjoern Felsager, 1998-01-09 Geometry Particles and Fields is a direct reprint of the first edition From a review of the first edition The present volume is a welcome edition to the growing number of books that develop geometrical language and use it to describe new developments in particle physics It provides clear treatment that is accessible to graduate students with a knowledge of advanced calculus and of classical physics The second half of the book deals with the principles of differential geometry and its applications with a mathematical machinery of very wide range Here clear line drawings and illustrations supplement the multitude of mathematical definitions This section in its clarity and pedagogy is reminiscent of Gravitation by Charles Misner Kip Thorne and John Wheeler Felsager gives a very clear presentation of the use of geometric methods in particle physics For those who have resisted learning this new language his book provides a very good introduction as well as physical motivation The inclusion of numerous exercises worked out renders the book useful for independent study also I hope this book will be followed by others from authors with equal flair to provide a readable excursion into the next step PHYSICS TODAY Bjoern Felsager is a high school teacher in Copenhagen Educated at the Niels Bohr Institute he has taught at the Universities of Copenhagen and Odense      **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 Bäcklund 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 systems contents      *Solitons and the Inverse Scattering Transform* Mark J. Ablowitz, Harvey Segur, 2006-05-15 A study by two of the major contributors to the theory of the inverse

scattering transform and its application to problems of nonlinear dispersive waves that arise in fluid dynamics plasma physics nonlinear optics particle physics crystal lattice theory nonlinear circuit theory and other areas A soliton is a localised pulse like nonlinear wave that possesses remarkable stability properties Typically problems that admit soliton solutions are in the form of evolution equations that describe how some variable or set of variables evolve in time from a given state The equations may take a variety of forms for example PDEs differential difference equations partial difference equations and integrodifferential equations as well as coupled ODEs of finite order What is surprising is that although these problems are nonlinear the general solution that evolves from almost arbitrary initial data may be obtained without approximation

**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 *Nonlinear Waves and Solitons on Contours and Closed Surfaces*

Andrei Ludu, 2022-11-04 This new edition has been thoroughly revised expanded and contain some updates function of the novel results and shift of scientific interest in the topics The book has a Foreword by Jerry L Bona and Hongqiu Chen The book is an introduction to nonlinear waves and soliton theory in the special environment of compact spaces such a closed curves and surfaces and other domain contours It assumes familiarity with basic soliton theory and nonlinear dynamical systems The first part of the book introduces the mathematical concept required for treating the manifolds considered providing relevant notions from topology and differential geometry An introduction to the theory of motion of curves and surfaces as part of the emerging field of contour dynamics is given The second and third parts discuss the modeling of various physical solitons on compact systems such as filaments loops and drops made of almost incompressible materials thereby intersecting with a large number of physical disciplines from hydrodynamics to compact object astrophysics This book is intended for graduate students and researchers in mathematics physics and engineering **Topological Solitons**

Nicholas Manton, Paul Sutcliffe, 2004-06-10 Topological solitons occur in many nonlinear classical field theories They are stable particle like objects with finite mass and a smooth structure Examples are monopoles and Skyrmons Ginzburg Landau vortices and sigma model lumps and Yang Mills instantons This book is a comprehensive survey of static topological solitons and their dynamical interactions Particular emphasis is placed on the solitons which satisfy first order Bogomolny equations For these the soliton dynamics can be investigated by finding the geodesics on the moduli space of static multi soliton solutions Remarkable scattering processes can be understood this way The book starts with an introduction to classical field theory and a survey of several mathematical techniques useful for understanding many types of topological soliton Subsequent chapters explore key examples of solitons in one two three and four dimensions The final chapter discusses the unstable sphaleron solutions which exist in several field theories Advanced Space Plasma Physics Wolfgang

Baumjohann, Rudolf A Treumann, 1997-01-03 This book builds on the fluid and kinetic theory of equilibria and waves presented in a companion textbook Basic Space Plasma Physics by the same authors but can also serve as a stand alone text

It extends the field covered there into the domain of plasma instability and nonlinear theory The book provides a representative selection of the many possible macro and microinstabilities in a space plasma from the Rayleigh Taylor and Kelvin Helmholtz to electrostatic and electromagnetic kinetic instabilities Their quasilinear stabilization and nonlinear evolution and their application to space physics problems are treated The chapters on nonlinear theory include nonlinear waves weak turbulence and strong turbulence all presented from the viewpoint of their relevance to space plasma physics Special topics include auroral particle acceleration soliton formation and caviton collapse anomalous transport and the theory of collisionless shocks

Davydov's Soliton Revisited Peter L. Christiansen, Alwyn C. Scott, 2013-11-11 Proceedings of a NATO ARW held in Thisted Denmark July 30 August 5 1989

**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

*Focus on Soliton Research* L. V. Chen, 2006

Since their discovery a mere thirty years ago solitons have been invoked to explain such diverse phenomena as The long lived giant red spot in the highly turbulent Jovian atmosphere The famous Fermi Pasta Ulam paradox wherein a nonlinearly coupled lattice of particles does not display the expected equipartition of energy among available modes ion acoustic waves in a plasma energy storage and transfer in proteins via the Davydov soliton and the propagation of short laser pulses in optical fibres over long distances with negligible shape change This volume presents important research from around the globe

Quantum Mechanical Initial Conditions and Gravity (Copenhagen's Illusions) Pavel Simeonov Kamenov, 2006 Since the late 1920s the theory formulated by Niels Bohr and his colleagues at Copenhagen has been the dominant interpretation of quantum mechanics Yet an alternative interpretation rooted in the work of Luis de Broglie and reformulated and extended by David Bohm and his colleagues in the 1950s explains the experimental data equally well Through a detailed historical and sociological study of debates within and between opposing camps and the reception given each theory Cushing showed that despite the pre eminence of the Copenhagen view the Bohms interpretation cannot be ignored Copenhagen interpretation became widely accepted not because it is a better explanation how of atomic phenomena than Bohms but because it

happened to appear first In this monograph the author shows that Bohm s point of view is more productive The properties of solitary objects which he discusses contradict the Copenhagen s Illusions but the results are or proved or provable experimentally      Decoherence: Theoretical, Experimental, and Conceptual Problems P. Blanchard,D. Giulini,E. Joos,C. Kiefer,I.-O. Stamatescu,2008-01-11 In this book the process of decoherence is reviewed from both the theoretical and the experimental physicist s point of view Implications of this important concept for fundamental problems of quantum theory and for chemistry and biology are also given This broad review of decoherence addresses researchers and graduate students It could also be used in seminar work      *The Languages of Creativity* Mark Amsler,1986 Distinguished philosophers of science and scholars in biochemistry and linguistics describe the structure and contexts of creativity in the sciences and humanities      **Quantum Mechanics in Nonlinear Systems** Xiao-Feng Pang,Yuan-Ping Feng,2005 In the history of physics and science quantum mechanics has served as the foundation of modern science This book discusses the properties of microscopic particles in nonlinear systems principles of the nonlinear quantum mechanical theory and its applications in condensed matter polymers and biological systems The book is essentially composed of three parts The first part presents a review of linear quantum mechanics as well as theoretical and experimental fundamentals that establish the nonlinear quantum mechanical theory The theory itself and its essential features are covered in the second part In the final part extensive applications of this theory in physics biology and polymer are introduced The whole volume forms a complete system of nonlinear quantum mechanics The book is intended for researchers graduate students as well as upper level undergraduates      **Advances in Unconventional Computing** Andrew Adamatzky,2016-07-26 The unconventional computing is a niche for interdisciplinary science cross bred of computer science physics mathematics chemistry electronic engineering biology material science and nanotechnology The aims of this book are to uncover and exploit principles and mechanisms of information processing in and functional properties of physical chemical and living systems to develop efficient algorithms design optimal architectures and manufacture working prototypes of future and emergent computing devices This second volume presents experimental laboratory prototypes and applied computing implementations Emergent molecular computing is presented by enzymatic logical gates and circuits and DNA nano devices Reaction diffusion chemical computing is exemplified by logical circuits in Belousov Zhabotinsky medium and geometrical computation in precipitating chemical reactions Logical circuits realised with solitons and impulses in polymer chains show advances in collision based computing Photo chemical and memristive devices give us a glimpse on hot topics of a novel hardware Practical computing is represented by algorithms of collective and immune computing and nature inspired optimisation Living computing devices are implemented in real and simulated cells regenerating organisms plant roots and slime mould The book is the encyclopedia the first ever complete authoritative account of the theoretical and experimental findings in the unconventional computing written by the world leaders in the field All chapters are self contains no specialist background is required to

appreciate ideas findings constructs and designs presented This treatise in unconventional computing appeals to readers from all walks of life from high school pupils to university professors from mathematicians computers scientists and engineers to chemists and biologists     *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 atmosphere 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 A Yu Rylov A V Khutoretsky and astrophysics theoreticians from the Astronomical Council of the USSR Academy of Sciences A M Fridman and from the Volgograd State University A G 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     **Field Theoretical Tools for**

**Polymer and Particle Physics** Hildegard Meyer-Ortmanns, Andreas Klümper, 1998-03-18 The book is written for advanced graduate students The topics have been selected to present methods and models that have applications in both particle physics and polymer physics The lectures may serve as a guide through more recent research activities and illustrate the applicability of joint methods in different contexts The book deals with analytic tools e g random walk models polymer expansion numerical tools e g Langevin dynamics and common models the three dimensional Gross Neveu Model

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