

Springer Series in  
**Solid-State Sciences** 8

# **Solitons and Condensed Matter Physics**

Editors: A. R. Bishop T. Schneider



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# Solitons Condensed Matter Physics

**S Ashworth**



## **Solitons Condensed Matter Physics:**

**Solitons and Condensed Matter Physics** A.R. Bishop, T. Schneider, 2012-12-06 Nonlinear ideas of a soliton variety have been a unifying influence on the natural sciences for many decades. However their universal application in the physics community as a genuine paradigm is very much a current development. All of us who have been associated with this recent wave of enthusiasm were impressed with the variety of applications, their inevitability once the mental constraint of linear normal modes is removed, and above all by the common mathematical structures underpinning applications with quite different and often novel physical manifestations. This has certainly been the situation in condensed matter and when during the Paris Lattice Dynamics Conference September 1977 one of us (T.S.) first suggested a condensed matter soliton Meeting the idea was strongly encouraged. It would provide an opportunity to exhibit the common mathematical problems, illuminate the new contexts and thereby focus the subject of nonlinear physics at this embryonic stage of its evolution. The original conception was to achieve a balance of mathematicians and physicists such that each would benefit from the other's expertise and outlook. In contrast to many soliton Meetings however a deliberate attempt was made to emphasize physics contexts rather than mathematical details. Solitons and Condensed Matter Physics, 1978 Solitons and Condensed Matter Physics Alan R. Bishop, T. Schneider, 1978 Solitons S.E. Trullinger, V.E. Zakharov, V.L. Pokrovsky, 2012-12-02 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 and Condensed Matter Physics: Proceedings of the Symposium on Nonlinear (soliton) Structure and Dynamics in Condensed Matter* T. Schneider, 1978 *Solitons and Condensed Matter Physics* A.R. Bishop (ed), 1981 Solitons R. MacKenzie, M.B. Paranjape, W.J. Zakrzewski, 2012-12-06 Solitons were discovered by John Scott Russell in 1834 and have interested scientists and mathematicians ever since. They have been the subject of a large body of research in a wide variety of fields of physics and mathematics, not to mention engineering and other branches of science such as biology. This volume comprises the written versions of the talks presented at a workshop held at Queen's University in 1997, an interdisciplinary meeting wherein top researchers from many fields could meet, interact and exchange ideas. Topics covered include mathematical and numerical aspects of solitons as well as applications of solitons to nuclear and particle physics, cosmology and condensed matter physics. The book should be of interest to researchers in any field in which solitons are encountered. *Solitons and condensed matter physics* A. R.

Bishop, T. Schneider, 1978 *Nonlinear (soliton) Structure and Dynamics in Condensed Matter* A. R. Bishop, T. Schneider, 1978 *Solitons and Condensed Matter Physics* Tonny Schneider, 1981 Kinks and Domain Walls Tanmay Vachaspati, 2006-09-14 Kinks and domain walls are the simplest kind of solitons and are invaluable for testing various ideas and for learning about non perturbative aspects of field theories They are the subject of research in essentially every branch of physics ranging from condensed matter to cosmology This book is an introduction to kinks and domain walls and their principal classical and quantum properties The book examines classical solitons building from examples in elementary systems to more complicated settings The formation of solitons in phase transitions their dynamics and their cosmological consequences are further discussed The book closes with an explicit description of a few laboratory systems containing solitons Kinks and Domain Walls includes several state of the art results some previously unpublished Each chapter closes with open questions and research problems and will be of great interest to both graduate students and academic researchers in theoretical physics particle physics cosmology and condensed matter physics Solitons R.K. Bullough, P.J. Caudrey, 2013-11-11 With contributions by numerous experts *Solitons and Condensed Matter Physics* Symposium {on} Nonlinear (Soliton) Structure and Dynamics in Condensed Matter, 1978 *Nonlinearity in Condensed Matter* Alan R. Bishop, David K. Campbell, Steven E. Trullinger, Pradeep Kumar, 2012-12-06 The Sixth Annual Conference of the Center for Nonlinear Studies at the Los Alamos National Laboratory was held May 5 9 1986 on the topic Nonlinearity in Condensed Matter Lessons from the Past and Prospects for the Future As conference organizers we felt that the study of non linear phenomena in condensed matter had matured to the point where it made sense to take stock of the numerous lessons to be learned from a variety of contexts where nonlinearity plays a fundamental role and to evaluate the prospects for the growth of this general discipline The successful 1978 Oxford Symposium on nonlinear soliton structure and dynamics in condensed matter Springer Ser Solid State Sci Vol 8 was held at a time when the ubiquity of solitons was just beginning to be appreciated by the condensed matter community in subsequent years the soliton paradigm has provided a rather useful framework for investigating a large number of phenomena particularly in low dimensional systems Nevertheless we felt that the importance of nonlinearity in wider arenas than solitonics merited a significant expansion in the scope of the conference over that of the 1978 symposium Indeed many of the lessons are quite general and their potential for cross fertilization of otherwise poorly connected disciplines was certainly one of the prime motivations for this conference Thus while these proceedings contain many contributions pertaining to soliton behavior in different contexts the reader will find much more as well particularly in the later chapters **Solitons & Polarons in Conducting Polymers** Lu Yu, 1988 Polyacetylene CH<sub>x</sub> is the simplest conjugated polymer Pristine polyacetylene is a good insulator whereas its highly doped version exhibits metal like electrical conductivity This book gives a detailed introduction to this rapidly developing field is given along with a collection of original papers The main purpose is to help chemists and physicists grasp the main ideas and most important

facts an expert may also find it useful as a reference volume      Collective Effects in Condensed Matter Physics Vladimir V. Kiselev, 2018-06-11 This monograph offers a concise overview of the theoretical description of various collective phenomena in condensed matter physics These effects include the basic electronic structure in solid state physics lattice vibrations superconductivity light matter interaction and more advanced topics such as martensitic transistions

**Condensed-Matter Physics** National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Board on Physics and Astronomy, Physics Survey Committee, Panel on Condensed-Matter Physics, 1986-02-01      **Optical Solitons** Fatkhulla Abdullaev, Sergei Darmanyan, Pulat

Khabibullaev, 2014-04-17 The investigation of nonlinear wave phenomena has been one of the main directions of research in optics for the last few decades Soliton concepts applied to the description of intense electromagnetic beams and ultrashort pulse propagation in various media have contributed much to this field The notion of solitons has proved to be very useful in describing wave processes in hydrodynamics plasma physics and condensed matter physics Moreover it is also of great importance in optics for ultrafast information transmission and storage radiation propagation in resonant media etc In 1973 Hasegawa and Tappert made a significant contribution to optical soliton physics when they predicted the existence of an envelope soliton in the regime of short pulses in optical fibres In 1980 Mollenauer et al conducted experiments to elucidate this phenomenon Since then the theory of optical solitons as well as their experimental investigation has progressed rapidly The effects of inhomogeneities of the medium and energy pumping on optical solitons the interaction between optical solitons and their generation in fibres etc have all been investigated and reported Logical devices using optical solitons have been developed new types of optical solitons in media with Kerr type nonlinearity and in resonant media have been described

*Solitons* G. Eilenberger, 2012-12-06 1 1 Why Study Solitons The last century of physics which was initiated by Maxwell's completion of the theory of electromagnetism can with some justification be called the era of linear physics With few exceptions the methods of theoretical physics have been dominated by linear equations Maxwell Schrodinger linear mathematical objects vector spaces in particular Hilbert spaces and linear methods Fourier transforms perturbation theory linear response theory Naturally the importance of nonlinearity beginning with the Navier Stokes equations and continuing to gravitation theory and the interactions of particles in solids nuclei and quantized fields was recognized However it was hardly possible to treat the effects of nonlinearity except as a perturbation to the basis solutions of the linearized theory During the last decade it has become more widely recognized in many areas of field physics that nonlinearity can result in qualitatively new phenomena which cannot be constructed via perturbation theory starting from linearized equations By field physics we mean all those areas of theoretical physics for which the description of physical phenomena leads one to consider field equations or partial differential equations of the form  $\frac{1}{c^2} \frac{\partial^2 F}{\partial t^2} = \nabla^2 F$  for one or many component fields  $H(x, y)$  or their quantum analogs      Fundamentals of Classical Fourier Analysis Shashank Tiwari, 2025-02-20 Fundamentals of Classical

Fourier Analysis is a comprehensive guide to understanding fundamental concepts techniques and applications of Fourier analysis in classical mathematics This book provides a thorough exploration of Fourier analysis from its historical origins to modern day applications offering readers a solid foundation in this essential area of mathematics Classical Fourier analysis has been a cornerstone of mathematics and engineering for centuries playing a vital role in solving problems in fields like signal processing differential equations and quantum mechanics We delve into the rich history of Fourier analysis tracing its development from Joseph Fourier s groundbreaking work to modern digital signal processing applications Starting with an overview of fundamental concepts and motivations behind Fourier analysis we introduce Fourier series and transforms exploring their properties convergence and applications We discuss periodic and non periodic functions convergence phenomena and important theorems such as Parseval s identity and the Fourier inversion theorem Throughout the book we emphasize both theoretical insights and practical applications providing a balanced understanding of Fourier analysis and its relevance to real world problems Topics include harmonic analysis orthogonal functions Fourier integrals and Fourier transforms with applications in signal processing data compression and partial differential equations Each chapter includes examples illustrations and exercises to reinforce key concepts Historical insights into key mathematicians and scientists contributions are also provided Whether you are a student researcher or practitioner in mathematics engineering or related fields Fundamentals of Classical Fourier Analysis is a comprehensive and accessible resource for mastering Fourier analysis principles and techniques

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