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Solitons and Condensed Matter Physics

Editors: A. R. Bishop T. Schneider



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Solitons Condensed Matter Physics

**S.E. Trullinger, V.E. Zakharov, V.L.
Pokrovsky**



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, 2000 Solitons were discovered by John Scott Russell in 1834 and have intrigued scientists and mathematicians ever since. They have been the subject of a large body of research not only in mathematics and physics but also engineering, biology, and other disciplines. This volume comprises the presentations at an interdisciplinary workshop held at Queen's University in Kingston, Ontario. It includes chapters on mathematical and numerical aspects of solitons, recent developments in string theory, and applications of solitons in such areas as nuclear and particle physics, cosmology, and condensed matter physics. **Solitons and condensed matter physics** A. R. Bishop, T. Schneider, 1978 *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

Nonlinear (soliton) Structure and Dynamics in Condensed Matter A. R. Bishop, T. Schneider, 1978

Whispering the Strategies of Language: An Emotional Quest through **Solitons Condensed Matter Physics**

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