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# Solitons, Nonlinear Evolution Equations and Inverse Scattering

M. J. Ablowitz  
and  
P. A. Clarkson

CAMBRIDGE UNIVERSITY PRESS

# Solitons Nonlinear Evolution Equations And Inverse Scattering

**CO Houle**



## **Solitons Nonlinear Evolution Equations And Inverse Scattering:**

**Solitons, Nonlinear Evolution Equations and Inverse Scattering** Mark J. Ablowitz, P. A. Clarkson, 1991-12-12 This book will be a valuable addition to the growing literature in the area and essential reading for all researchers in the field of soliton theory □□□□□□□□□□□□□□ M. J. Ablowitz, □□□□, 2000 *Solitons, Nonlinear Evolution Equations and Inverse Scattering* Mark J. Ablowitz, Ablowitz M a, P. A. Clark, Clarkson P a, 1991 This book will be a valuable addition to the growing literature in the area and essential reading for all researchers in the field of soliton theory **Solitons, Nonlinear Evolution Equations and Inverse Scattering** M. A. Ablowitz, P. A. Clarkson, 1991 This book will be a valuable addition to the growing literature in the area and essential reading for all researchers in the field of soliton theory *Topics In Soliton Theory And Exactly Solvable Nonlinear Equations: Proceedings Of The Conference On Nonlinear Evolution Equations, Solitons And The Inverse Scattering Transform* Mark J Ablowitz, Benno Fuchssteiner, M Kruskal, 1987-06-01 The focus of this volume is to show how the various successful models of nuclear structure complement one another and can be realised as approximations appropriate in different situations to an underlying non relativistic many nucleon theory of nuclei In common with the previous volume on Foundational Models it starts with a broad survey of the relevant nuclear structure data and proceeds with two dominant themes The first is to review the many body theories and successful phenomenological models with collective and nucleon degrees of freedom The second is to show how these models relate to the underlying many nucleon shell model in its various coupling schemes **Solitons and the Inverse Scattering Transform** Mark J. Ablowitz, Harvey Segur, 1981-01-01 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 localized 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 For such exactly solvable problems the inverse scattering transform provides the general solution of their initial value problems It is equally surprising that some of these exactly solvable problems arise naturally as models of physical phenomena Simply put the inverse scattering transform is a nonlinear analog of the Fourier transform used for linear problems Its value lies in the fact that it allows certain nonlinear problems to be treated by what are essentially linear methods Chapters 1 and 2 of the book describe in detail the theory of the inverse scattering transform Chapter 3 discusses alternate methods for these exactly solvable problems and the interconnections among them Physical applications are described in Chapter 4 where for example

similarities between deep water waves and nonlinear optics become evident Because of the fundamental role of linear theory there is an extensive appendix that addresses the linear problems and their solutions

**Nonlinear Evolution Equations, Solitons and the Inverse Scattering Transform** Mathematisches Forschungsinstitut,1993 *Nonlinear Evolution Equations, Solitons and the Inverse Scattering Transform* Mathematisches Forschungsinstitut,1990 *Nonlinear Evolution Equations Solvable by the Spectral Transform* F. Calogero,Francesco Calogero,1978 The volume contains the text of the invited lectures presented at the International Symposium on Nonlinear Evolution Equations Solvable by the Inverse Spectral Transform that took place at the Accademia dei Lincei in Rome from June 15 through June 18 1977 It introduces an important mathematical technique based on the spectral transform and relevant to the solution of nonlinear evolution equations These texts will be of particular value to theoretical physicists in plasma nonlinear optics hydrodynamics solid state and elementary particles applied mathematicians interested in nonlinear evolution equations and pure mathematicians interested in algebraic and differential geometry

[Nonlinear Evolution Equations, Solitons and the Inverse Scattering Transform](#) ,1986

**Topics in Soliton Theory and Exactly Solvable Nonlinear Equations** Mark J. Ablowitz,1987

**Nonlinear Evolution Equations and Dynamical Systems** Vladimir G. Makhankov,Oktay K. Pashaev,2012-12-06

Proceedings of the 6th International Workshop 16 26 July 1990 Dubna USSR

**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 systems

**Loop-like Solitons in the Theory of Nonlinear Evolution Equations** V. O. Vakhnenko,E. John Parkes,2022-02-17 This book shows that the physical phenomena and processes that take place in nature generally have complicated nonlinear features which leads to nonlinear mathematical models for the real processes It focuses on the practical issues involved here as well as the development of methods to investigate the associated nonlinear mathematical problems including nonlinear wave propagation It acquaints the reader with a series of methods and approaches that can be applied to a wide class of nonlinear equations The book also outlines a way in which an uninitiated reader could investigate a new nonlinear equation

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Transform ,1986      Nonlinear Evolution Equations, Solitons and the Inverse Scattering Transform ,1990      **Nonlinear Evolution Equations, Solitons and the Inverse Scattering Transform** ,1993      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      Topics in Soliton Theory and Exactly Solvable Nonlinear

Equations Benno Fuchssteiner,1987-01-01      **Solitons in Physics, Mathematics, and Nonlinear Optics** Peter J.

Olver,David H. Sattinger,2012-12-06 This IMA Volume in Mathematics and its Applications SOLITONS IN PHYSICS MATHEMATICS AND NONLINEAR OPTICS is based on the proceedings of two workshops which were an integral part of the 1988 89 IMA program on NONLINEAR WAVES The workshops focussed on the main parts of the theory of solitons and on the applications of solitons in physics biology and engineering with a special concentration on nonlinear optics We thank the Coordinating Committee James Glimm Daniel Joseph Barbara Keyfitz An Majda Alan Newell Peter Olver David Sattinger and David Schaeffer for drew planning and implementing the stimulating year long program We especially thank the Workshop Organizers for Solitons in Physics and Mathematics Alan Newell Peter Olver and David Sattinger and for Nonlinear Optics and Plasma Physics David Kaup and Yuji Kodama for their efforts in bringing together many of the major figures in those research fields in which solitons in physics mathematics and nonlinear optics theories are used A vner Friedman Willard Miller Jr PREFACE This volume includes some of the lectures given at two workshops Solitons in Physics and Mathematics and Solitons in Nonlinear Optics and Plasma Physics held during the 1988 89 LM A year on Nonlinear Waves Since their discovery by Kruskal and Zabusky in the early 1960 s solitons have had a profound impact on many fields ranging from engineering and physics to algebraic geometry

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