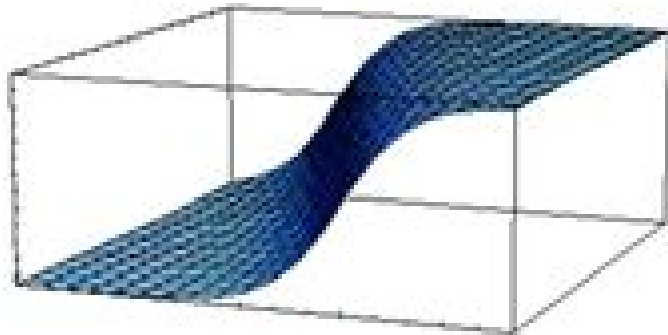
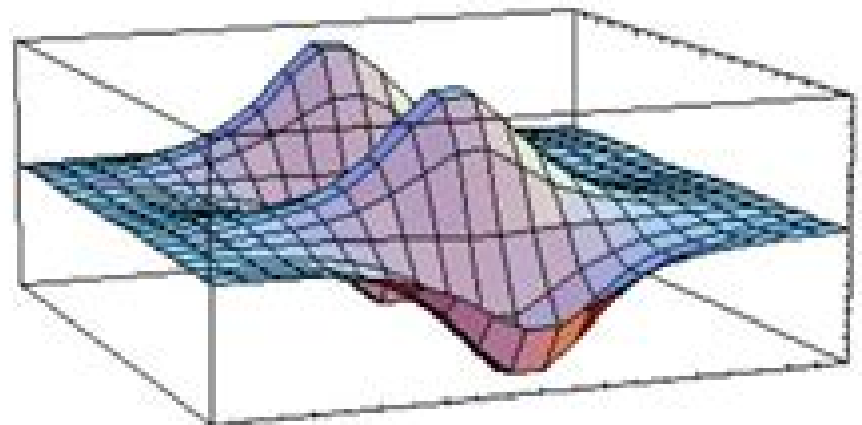
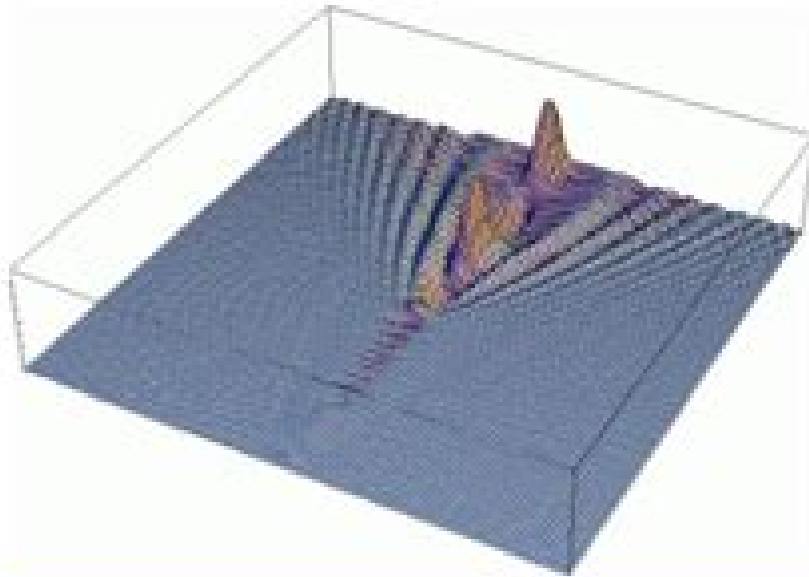


# Solitons nowadays



- Today solitons take apart in many physical areas, like hydrodynamics, quantum mechanics, particle physics and so on.
- It was found a lots of equation with soliton-type solutions.



# Soliton Theory

**Colin Rogers**



## **Soliton Theory:**

**Glimpses of Soliton Theory** Alex Kasman, 2010 Glimpses of Soliton Theory addresses some of the hidden mathematical connections in soliton theory which have been revealed over the last half century It aims to convince the reader that like the mirrors and hidden pockets used by magicians the underlying algebro geometric structure of soliton equations provides an elegant and surprisingly simple explanation of something seemingly miraculous

**Basic Methods Of Soliton Theory** Ivan V Cherednik, 1996-08-22 In the 25 years of its existence Soliton Theory has drastically expanded our understanding of integrability and contributed a lot to the reunification of Mathematics and Physics in the range from deep algebraic geometry and modern representation theory to quantum field theory and optical transmission lines The book is a systematic introduction to the Soliton Theory with an emphasis on its background and algebraic aspects It is the first one devoted to the general matrix soliton equations which are of great importance for the foundations and the applications Differential algebra local conservation laws Bäcklund Darboux transforms algebraic geometry theta and Baker functions and the inverse scattering method Riemann Hilbert problem with well grounded preliminaries are applied to various equations including principal chiral fields Heisenberg magnets Sin Gordon and Nonlinear Schrödinger equation

**Introduction to Soliton Theory: Applications to Mechanics** Ligia Munteanu, Stefania Donescu, 2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Jules Verne's novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

**Soliton Theory** Allan P. Fordy, 1990 A coherent introduction to the complete range of soliton theory including Hirota's method and Backlund transformations Details physical applications of soliton theory with chapters on the peculiar wave patterns of the Andaman Sea atmospheric phenomena general relativity and Davydov solitons Contains testing for full integrability a discussion of the Painlevé technique symmetries and conservation law

Soliton Theory and Its Applications Chaohao Gu, 2013-03-14 Soliton theory is an important branch of applied

mathematics and mathematical physics An active and productive field of research it has important applications in fluid mechanics nonlinear optics classical and quantum fields theories etc This book presents a broad view of soliton theory It gives an expository survey of the most basic ideas and methods such as physical background inverse scattering Backlund transformations finite dimensional completely integrable systems symmetry Kac Moody algebra solitons and differential geometry numerical analysis for nonlinear waves and gravitational solitons Besides the essential points of the theory several applications are sketched and some recent developments partly by the authors and their collaborators are presented

Elements of Soliton Theory George L. Lamb, 1980

**A Nonlinear Progress to Modern Soliton Theory** Colin

Rogers, 2022-12-06 This book provides a historical account of the discovery in 1834 of a remarkable singular wave that was ultimately to lead to the development of modern soliton theory with its diverse physical applications In terms of associated geometry the classical work of Bäcklund and Bianchi and its consequences is recounted notably with regard to nonlinear superposition principles which later were shown to be generic to soliton systems and which provide the analytic description of complex multi soliton interaction Whereas the applications of modern soliton in certain areas of physics are well documented deep connections between soliton theory and nonlinear continuum mechanics have had a separate development This book describes wide applications in such disparate areas as elastostatics elastodynamics superelasticity shell theory magnetohydrostatics and magnetohydrodynamics and will appeal to research scientists and advanced students with an interest in integrable systems in nonlinear physics or continuum mechanics

**Hamiltonian Methods in the Theory of Solitons** Ludwig Faddeev, Leon Takhtajan, 2007-08-10 This book presents the foundations of the inverse scattering method and its applications to the theory of solitons in such a form as we understand it in Leningrad The concept of soliton was introduced by Kruskal and Zabusky in 1965 A soliton a solitary wave is a localized particle like solution of a nonlinear equation which describes excitations of finite energy and exhibits several characteristic features propagation does not destroy the profile of a solitary wave the interaction of several solitary waves amounts to their elastic scattering so that their total number and shape are preserved Occasionally the concept of the soliton is treated in a more general sense as a localized solution of finite energy At present this concept is widely spread due to its universality and the abundance of applications in the analysis of various processes in nonlinear media The inverse scattering method which is the mathematical basis of soliton theory has developed into a powerful tool of mathematical physics for studying nonlinear partial differential equations almost as vigorous as the Fourier transform The book is based on the Hamiltonian interpretation of the method hence the title Methods of differential geometry and Hamiltonian formalism in particular are very popular in modern mathematical physics It is precisely the general Hamiltonian formalism that presents the inverse scattering method in its most elegant form Moreover the Hamiltonian formalism provides a link between classical and quantum mechanics

*The Direct Method in Soliton Theory* Ryogo Hirota, 2004-07-22 The bilinear or Hirota's direct method was invented in the early

1970s as an elementary means of constructing soliton solutions that avoided the use of the heavy machinery of the inverse scattering transform and was successfully used to construct the multisoliton solutions of many new equations. In the 1980s the deeper significance of the tools used in this method, Hirota derivatives and the bilinear form, came to be understood as a key ingredient in Sato's theory and the connections with affine Lie algebras. The main part of this book concerns the more modern version of the method in which solutions are expressed in the form of determinants and pfaffians. While maintaining the original philosophy of using relatively simple mathematics, it has nevertheless been influenced by the deeper understanding that came out of the work of the Kyoto school. The book will be essential for all those working in soliton theory.

**Important Developments in Soliton Theory** A.S. Fokas, V.E. Zakharov, 2012-12-06 In the last ten to fifteen years there have been many important developments in the theory of integrable equations. This period is marked in particular by the strong impact of soliton theory in many diverse areas of mathematics and physics, for example algebraic geometry, the solution of the Schottky problem, group theory, the discovery of quantum groups, topology, the connection of Jones polynomials with integrable models and quantum gravity, the connection of the KdV with matrix models. This is the first book to present a comprehensive overview of these developments. Numbered among the authors are many of the most prominent researchers in the field.

**Theory of Solitons** S. Novikov, S.V. Manakov, L.P. Pitaevskii, V.E. Zakharov, 1984-05-31 **Solitons** Tetsuji Miwa, Michio Jimbo, E. Date, 2000 The notion of solitons arose with the study of partial differential equations at the end of the 19th century. In more recent times their study has involved ideas from other areas of mathematics such as algebraic geometry, topology, and in particular infinite dimensional Lie algebras, and it is this approach that is the main theme of this book. This book will be of great interest to all whose research interests involve the mathematics of solitons.

**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.

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**Topics in Soliton Theory** R.W. Carroll, 1991-11-26 When soliton theory based on water waves, plasmas, fiber optics etc was developing in the 1960-1970 era it seemed that perhaps KdV and a few other equations were really rather special in the set of all interesting partial

differential equations As it turns out although integrable systems are still special the mathematical interaction of integrable systems theory with virtually all branches of mathematics and with many currently developing areas of theoretical physics illustrates the importance of this area This book concentrates on developing the theme of the tau function KdV and KP equations are treated extensively with material on NLS and AKNS systems and in following the tau function theme one is led to conformal field theory strings and other topics in physics The extensive list of references contains about 1000 entries

**Solitons and Geometry** S. P. Novikov, 1994-09-15 This is an introduction to the geometry of Hamiltonian systems from the modern point of view where the basic structure is a Poisson bracket Using this approach a mathematical analogue of the famous Dirac monopole is obtained starting from the classical top in a gravity field This approach is especially useful in physical applications in which a field theory appears this is the subject of the second part of the lectures which contains a theory of conservative hydrodynamic type systems based on Riemannian geometry developed over the last decade The theory has had success in solving problems in physics such as ones associated with dispersive analogues of shock waves and its development has led to the introduction of new notions in geometry The book is based on lectures given by the author in Pisa and which were intended for a non specialist audience It provides an introduction from which to proceed to more advanced work in the area

Solitons Mohamed Atef Helal, 2022-11-12 This newly updated volume of the Encyclopedia of Complexity and Systems Science ECSS presents several mathematical models that describe this physical phenomenon including the famous non linear equation Korteweg de Vries KdV that represents the canonical form of solitons Also there exists a class of nonlinear partial differential equations that led to solitons e g Kadomtsev Petviashvili KP Klein Gordon KG Sine Gordon SG Non Linear Schrödinger NLS Korteweg de Vries Burger's KdVB etc Different linear mathematical methods can be used to solve these models analytically such as the Inverse Scattering Transformation IST Adomian Decomposition Method Variational Iteration Method VIM Homotopy Analysis Method HAM and Homotopy Perturbation Method HPM Other non analytic methods use the computational techniques available in such popular mathematical packages as Mathematica Maple and MATLAB The main purpose of this volume is to provide physicists engineers and their students with the proper methods and tools to solve the soliton equations and to discover the new possibilities of using solitons in multi disciplinary areas ranging from telecommunications to biology cosmology and oceanographic studies *Important Developments in Soliton*

*Theory* A. S. Fokas, Vladimir Evgen'evich Zakharov, 1993 **Soliton Equations and Hamiltonian Systems** Leonid A. Dickey, 2003 The theory of soliton equations and integrable systems has developed rapidly during the last 30 years with numerous applications in mechanics and physics For a long time books in this field have not been written but the flood of papers was overwhelming many hundreds maybe thousands of them All this output followed one single work by Gardner Green Kruskal and Mizura on the Korteweg de Vries equation KdV which had seemed to be merely an unassuming equation of mathematical physics describing waves in shallow water Besides its obvious practical use this theory is attractive also

because it satisfies the aesthetic need in a beautiful formula which is so inherent to mathematics The second edition is up to date and differs from the first one considerably One third of the book five chapters is completely new and the rest is refreshed and edited Contents Integrable Systems Generated by Linear Differential  $n$  th Order Operators Hamiltonian Structures Hamiltonian Structure of the GD Hierarchies Modified KdV and GD The Kupershmidt-Okamoto-Wilson Theorem The KP Hierarchy Baker Function a Function Additional Symmetries String Equation Grassmannian Algebraic Geometrical Krichever Solutions Matrix First Order Operator AKNS D Hierarchy Generalization of the AKNS D Hierarchy Single Pole and Multi Pole Matrix Hierarchies Isomonodromic Deformations and the Most General Matrix Hierarchy Tau Functions of Matrix Hierarchies KP Modified KP Constrained KP Discrete KP and  $q$  KP Another Chain of KP Hierarchies and Integrals Over Matrix Varieties Transformational Properties of a Differential Operator under Diffeomorphisms and Classical W Algebras Further Restrictions of the KP Stationary Equations Stationary Equations of the Matrix Hierarchy Field Lagrangian and Hamiltonian Formalism Further Examples and Applications Readership Applied mathematicians and mathematical physicists

**Optical Solitons** Kuppuswamy Porsezian, Valakkattil Chako Kuriakose, 2008-01-11 Optical Solitons represent one of the most exciting and fascinating concepts in modern communications arousing special interest due to their potential applications in optical fibre communication This volume focuses on the explicit integration of analytical and experimental methods in nonlinear fibre optics and integrated optics It covers all important recent technical issues in optical soliton communication For example individual chapters are devoted to topics such as dispersion management and fibre Bragg grating All authors are leading authorities in their fields

**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

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