

Ludwig D. Faddeev · Leon A. Takhtajan

Hamiltonian Methods in the Theory of Solitons



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Hamiltonian Methods In The Theory Of Solitons

Ludwig Faddeev, Leon Takhtajan



Hamiltonian Methods In The Theory Of Solitons:

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

Spectral Methods in Soliton Equations I D Iliev, Eugeni Khristov, Kiril Petrov Kirchev, 1994-11-21 Soliton theory as a method for solving some classes of nonlinear evolution equations soliton equations is one of the most actively developing topics in mathematical physics This book presents some spectral theory methods for the investigation of soliton equations and the inverse scattering problems related to these equations The authors give the theory of expansions for the Sturm Liouville operator and the Dirac operator On this basis the spectral theory of recursion operators generating Korteweg de Vries type equations is presented and the Ablowitz Kaup Newell Segur scheme through which the inverse scattering method could be understood as a Fourier type transformation is considered Following these ideas the authors investigate some of the questions related to inverse spectral problems i e uniqueness theorems construction of explicit solutions and approximative methods for solving inverse scattering problems A rigorous investigation of the stability of soliton solutions including solitary waves for equations which do not allow integration within inverse scattering method is also presented

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

Differential Geometric Methods in Theoretical Physics Ling-Lie Chau, Werner Nahm, 2013-06-29 After several decades of reduced contact the interaction between physicists and mathematicians in the front line research of both fields recently became deep and fruit ful again Many of the leading specialists of both fields became involved in this devel opment This process even led to the discovery of previously unsuspected connections between various subfields of physics and mathematics In mathematics this concerns in particular knots von Neumann algebras Kac Moody algebras integrable non linear partial differential equations and differential geometry in low dimensions most im portantly in three and four dimensional spaces In physics it concerns gravity string theory integrable classical and quantum field theories solitons and the statistical me chanics of surfaces New discoveries in these fields are made at a rapid pace This conference brought together active researchers in these areas reporting their results and discussing with other participants to further develop thoughts in future new directions The conference was attended by SO participants from 15 nations These proceedings document the program and the talks at the conference This conference was preceded by a two week summer school Ten lecturers gave extended lectures on related topics The proceedings of the school will also be published in the NATO AS volume by Plenum The Editors vii **ACKNOWLEDGMENTS** We would like to thank the many people who have made the conference a success Furthermore we appreciate the excellent talks The active participation of everyone present made the conference lively and stimulating All of this made our efforts worth while

Solitons In Multidimensions: Inverse Spectral Transform Method B G Konopelchenko, 1993-04-30 The book is devoted to the mathematical theory of soliton phenomena on the plane The inverse spectral transform method which is a main tool for the study of the 2 1 dimensional soliton equation is reviewed The problem and the Riemann Hilbert problem method are discussed Several basic examples of soliton equations are considered in detail This volume is addressed both to the nonexpert and to the researcher in the field This is the first literature dealing specifically with multidimensional solition equations

Analytic Methods of Spectral Representations of Non-Selfadjoint (Non-Unitary) Operators Vladimir A. Zolotarev, 2025-05-03 This book is concerned with the theory of model representations of linear non selfadjoint and non unitary operators This booming area of functional analysis owes its origins to the fundamental works of M S Liv ic on the theory of characteristic functions the deep studies of B S Nagy and C Foias on dilation theory and also to the Lax Phillips scattering theory Here a uniform conceptual approach is developed which organically unites all these theories New analytic methods are introduced which make it possible to solve some important problems from the theory of spectral representations Aimed at specialists in functional analysis the book will also be accessible to senior mathematics students

Algebraic and Analytic Aspects of Integrable Systems and Painleve Equations Anton Dzhamay, Kenichi Maruno, Christopher M. Ormerod, 2015-10-28 This volume contains the proceedings of the AMS Special Session on Algebraic and Analytic Aspects of Integrable Systems and Painlevé Equations held on January 18 2014

at the Joint Mathematics Meetings in Baltimore MD The theory of integrable systems has been at the forefront of some of the most important developments in mathematical physics in the last 50 years The techniques to study such systems have solid foundations in algebraic geometry differential geometry and group representation theory Many important special solutions of continuous and discrete integrable systems can be written in terms of special functions such as hypergeometric and basic hypergeometric functions The analytic tools developed to study integrable systems have numerous applications in random matrix theory statistical mechanics and quantum gravity One of the most exciting recent developments has been the emergence of good and interesting discrete and quantum analogues of classical integrable differential equations such as the Painlevé equations and soliton equations Many algebraic and analytic ideas developed in the continuous case generalize in a beautifully natural manner to discrete integrable systems The editors have sought to bring together a collection of expository and research articles that represent a good cross section of ideas and methods in these active areas of research within integrable systems and their applications

Integrable Systems: From Classical to Quantum John P. Harnad, Gert Sabidussi, Pavel Winternitz, 2000 This volume presents the papers based upon lectures given at the 1999 Séminaire de Mathématiques Supérieures held in Montreal It includes contributions from many of the most active researchers in the field This subject has been in a remarkably active state of development throughout the past three decades resulting in new motivation for study in increasingly different directions Beyond the intrinsic interest in the study of integrable models of many particle systems spin chains lattice and field theory models at both the classical and the quantum level and completely solvable models in statistical mechanics there have been new applications in relation to a number of other fields of current interest These fields include theoretical physics and pure mathematics for example the Seiberg Witten approach to supersymmetric Yang Mills theory the spectral theory of random matrices topological models of quantum gravity conformal field theory mirror symmetry quantum cohomology etc This collection gives a nice cross section of the current state of the work in the area of integrable systems which is presented by some of the leading active researchers in this field The scope and quality of the articles in this volume make this a valuable resource for those interested in an up to date introduction and an overview of many of the main areas of study in the theory of integral systems

Integrability of Nonlinear Systems Yvette Kosmann-Schwarzbach, Basil Grammaticos, K.M. Tamizhmani, 2004-02-17 The lectures that comprise this volume constitute a comprehensive survey of the many and various aspects of integrable dynamical systems The present edition is a streamlined revised and updated version of a 1997 set of notes that was published as Lecture Notes in Physics Volume 495 This volume will be complemented by a companion book dedicated to discrete integrable systems Both volumes address primarily graduate students and nonspecialist researchers but will also benefit lecturers looking for suitable material for advanced courses and researchers interested in specific topics

Quantum Group Symmetry and Q-tensor Algebras L. C. Biedenharn, M. A. Lohe, 1995 Quantum groups are a generalization of the classical Lie groups and Lie algebras and provide a

natural extension of the concept of symmetry fundamental to physics This monograph is a survey of the major developments in quantum groups using an original approach based on the fundamental concept of a tensor operator Using this concept properties of both the algebra and co algebra are developed from a single uniform point of view which is especially helpful for understanding the noncommuting coordinates of the quantum plane which we interpret as elementary tensor operators Representations of the q deformed angular momentum group are discussed including the case where q is a root of unity and general results are obtained for all unitary quantum groups using the method of algebraic induction Tensor operators are defined and discussed with examples and a systematic treatment of the important $3j$ series of operators is developed in detail This book is a good reference for graduate students in physics and mathematics

Encyclopaedia of Mathematics

Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Oscillations and Waves Nail R. Sibgatullin, 2012-12-06

This book is an updated and modified translation of the Russian edition of 1984 In the present edition certain sections have been abridged in particular Sects 6.1 and 8.3 and the bibliography has been expanded There are more detailed discussions of the group properties of integrable systems of equations of mathematical physics Sect 3.4 and of the Riemannian problem in the context of the infinite dimensional internal symmetry groups of these systems of equations There is an extended discussion of the reasons for the acceleration and retardation of pulsars in connection with more recent achievements of X ray astronomy Part of the material of Chap 8 of the Russian edition has been included in Chap 7 thus the number of chapters has been reduced to seven S Chandrasekhar set for me an example of brilliant analytical penetration into the essence of physical problems and my book touches on his work in many instances The results of modern quantum theories of strong fields are not presented but they can be found in the fundamental monographs Quantum Electrodynamics of Strong Fields by

W Greiner B Muller J Rafelski Springer Verlag Berlin Heidelberg New York 1985 and Quantum Effects in Intense External Fields in Russian by A Grib S Mamaev W Mostepanenko Energoatomizdat Moscow 1988 This book was translated by Dr N M Queen I am very grateful to him I thank sincerely H Latta C D Bachem V Rehman S von Kalckreuth for preparing of the english manuscript *Nonlinear Semigroups, Partial Differential Equations and Attractors* Tepper L. Gill, Woodford W. Zachary, 2006-11-14

Integrable Systems, Topology, and Physics Martin A. Guest, Reiko Miyaoka, Yoshihiro Ohnita, 2002 Ideas and techniques from the theory of integrable systems are playing an increasingly important role in geometry Thanks to the development of tools from Lie theory algebraic geometry symplectic geometry and topology classical problems are investigated more systematically New problems are also arising in mathematical physics A major international conference was held at the University of Tokyo in July 2000 It brought together scientists in all of the areas influenced by integrable systems This book is the second of three collections of expository and research articles This volume focuses on topology and physics The role of zero curvature equations outside of the traditional context of differential geometry has been recognized relatively recently but it has been an extraordinarily productive one and most of the articles in this volume make some reference to it Symplectic geometry Floer homology twistor theory quantum cohomology and the structure of special equations of mathematical physics such as the Toda field equations all of these areas have gained from the integrable systems point of view and contributed to it Many of the articles in this volume are written by prominent researchers and will serve as introductions to the topics It is intended for graduate students and researchers interested in integrable systems and their relations to differential geometry topology algebraic geometry and physics The first volume from this conference also available from the AMS is *Differential Geometry and Integrable Systems* Volume 308 CONM 308 in the Contemporary Mathematics series The forthcoming third volume will be published by the Mathematical Society of Japan and will be available outside of Japan from the AMS in the Advanced Studies in Pure Mathematics series [Quantum Mechanics In Nonlinear Systems](#) Xiao-feng Pang, 2005-04-18 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

Recent Developments in the Solution of Nonlinear Differential Equations Bruno Carpentieri, 2021-09-08 Nonlinear differential equations are ubiquitous in computational science and engineering modeling fluid dynamics finance and quantum mechanics among other areas

Nowadays solving challenging problems in an industrial setting requires a continuous interplay between the theory of such systems and the development and use of sophisticated computational methods that can guide and support the theoretical findings via practical computer simulations. Owing to the impressive development in computer technology and the introduction of fast numerical methods with reduced algorithmic and memory complexity, rigorous solutions in many applications have become possible. This book collects research papers from leading world experts in the field, highlighting ongoing trends, progress, and open problems in this critically important area of mathematics. *Encyclopaedia of Mathematics* M. Hazewinkel, 2013-12-01

Soliton-driven Photonics A.D. Boardman, A.P. Sukhorukov, 2012-12-06 It is ironic that the ideas of Newton, which described a beam of light as a stream of particles, made it difficult for him to explain things like thin film interference. Yet these particles, called photons, have caused the adjective photonic to gain common usage when referring to optical phenomena. The purist might argue that only when we are confronted by the particle nature of light should we use the word photonics. Equally, the argument goes on only when we are face to face with an integrable system, i.e. one that possesses an infinite number of conserved quantities, should we say soliton rather than solitary wave. Scientists and engineers are pragmatic, however, and they are happy to use the word soliton to describe what appears to be an excitation that is humped, multi-humped, or localised long enough for some use to be made of it. The fact that such solitons may stick to each other, fuse upon collision, is often something to celebrate for an application rather than just evidence that, after all, these are not really solitons in the classic sense. Soliton, therefore, is a widely used term with the qualification that we are constantly looking out for deviant behaviour that draws our attention to its solitary wave character. In the same spirit, photonics is a useful generic cover-all noun, even when electromagnetic theory or optics would suffice. **Applied Asymptotic Analysis** Peter David Miller, 2006 This book is a survey of asymptotic methods set in the current applied research context of wave propagation. It stresses rigorous analysis in addition to formal manipulations. Asymptotic expansions developed in the text are justified rigorously, and students are shown how to obtain solid error estimates for asymptotic formulae. The book relates examples and exercises to subjects of current research interest, such as the problem of locating the zeros of Taylor polynomials of entire nonvanishing functions and the problem of counting integer lattice points in subsets of the plane with various geometrical properties of the boundary. The book is intended for a beginning graduate course on asymptotic analysis in applied mathematics and is aimed at students of pure and applied mathematics as well as science and engineering. The basic prerequisite is a background in differential equations, linear algebra, advanced calculus, and complex variables at the level of introductory undergraduate courses on these subjects. The book is ideally suited to the needs of a graduate student who, on the one hand, wants to learn basic applied mathematics and, on the other, wants to understand what is needed to make the various arguments rigorous. Down here in the Village, this is known as the Courant point of view. Percy Deift, Courant Institute, New York. Peter D. Miller is an associate professor of mathematics at the University of Michigan at Ann Arbor. He

earned a Ph D in Applied Mathematics from the University of Arizona and has held positions at the Australian National University Canberra and Monash University Melbourne His current research interests lie in singular limits for integrable systems

Self-Dual Chern-Simons Theories Gerald Dunne, 2009-02-13 Self duality greatly reduces the mathematical difficulties of a theory but it is also a notion of considerable physical significance The new class of self dual Chern Simons theories discussed in detail in this book arise in the context of anyonic quantum field theory and have applications to models such as the quantum Hall effect anyonic superconductivity and Aharonov Bohm scattering There are also interesting connections with the theory of integrable models The author presents the abelian and non abelian models for relativistic and non relativistic realizations of the self dual Chern Simons theories and finishes with some applications in quantum physics The book is written for advanced students and researchers in mathematical particle and condensed matter physics

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