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Hamiltonian Methods in the Theory of Solitons

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Hamiltonian Methods In The Theory Of Solitons

B G Konopelchenko

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 solitonwas 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 scat tering 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 solu tion 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 vigoraus as the Fourier transform The book is based on the Hamiltonian interpretation of the method hence the title Methods of differential geometry and Hamiltonian formal ism in particular are very popular in modern mathematical physics It is precisely the general Hamiltonian formalism that presents the inverse scat tering method in its most elegant form Moreover the Hamiltonian formal ism 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 ad 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 Backl nd 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 **Geometric Methods in Physics XXXVIII** Piotr Kielanowski,Anatol Odzijewicz,Emma Previato,2020-10-27 The book consists of articles based on the XXXVIII Bia owie a Workshop on Geometric Methods in Physics 2019 The series of Bia owie a workshops attended by a community of experts at the crossroads of mathematics and physics is a major annual event in the field The works in this book based on presentations given at the workshop are previously unpublished at the cutting edge of current research typically grounded in geometry and analysis with applications to classical and quantum physics For the past eight years the Bia owie a Workshops have been complemented by a School on Geometry and Physics comprising series of advanced lectures for graduate students and early career researchers The extended abstracts of the five lecture series that were given in the eighth school are included The unique character of the Workshop and School series draws on the venue a famous historical cultural and environmental site in the Bia owie a forest a UNESCO World Heritage Centre in the east of Poland lectures are given in the Nature and Forest Museum and local traditions are interwoven with the scientific activities The chapter Toeplitz Extensions in Noncommutative Topology and Mathematical Physics is available open access under a Creative Commons Attribution 4 0 International License via link springer com **Soliton Equations and their Algebro-Geometric Solutions: Volume 1, (1+1)-Dimensional Continuous Models** Fritz Gesztesy,Helge Holden,2003-06-05 The focus of this book is on algebro geometric solutions of completely integrable nonlinear partial differential equations in 1 1 dimensions also known as soliton equations Explicitly treated integrable models include the KdV AKNS sine Gordon and Camassa Holm hierarchies as well as the classical massive Thirring system An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The formalism presented includes trace formulas Dubrovin type initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses techniques from the theory of differential equations spectral analysis and elements of algebraic geometry most notably the theory of compact Riemann surfaces The presentation is rigorous detailed and self contained with ample background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance the presentation offered in the main text *Soliton Equations and Their Algebro-Geometric Solutions: Volume 2, (1+1)-Dimensional Discrete Models* Fritz Gesztesy,Helge Holden,Johanna Michor,Gerald Teschl,2008-09-04 As a partner to Volume 1 Dimensional Continuous Models this monograph provides a self contained introduction to algebro geometric solutions of completely integrable nonlinear partial differential difference equations also known as soliton equations The systems studied in this volume include the Toda lattice hierarchy the Kac van Moerbeke hierarchy and the Ablowitz Ladik hierarchy An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The theory presented includes trace formulas algebro geometric initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses basic techniques from the

theory of difference equations and spectral analysis some elements of algebraic geometry and especially the theory of compact Riemann surfaces The presentation is constructive and rigorous with ample background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance understanding of the main results 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 Handbook of Dynamical Systems B. Fiedler,2002-02-21 This handbook is volume II in a series collecting mathematical state of the art surveys in the field of dynamical systems Much of this field has developed from interactions with other areas of science and this volume shows how concepts of dynamical systems further the understanding of mathematical issues that arise in applications Although modeling issues are addressed the central theme is the mathematically rigorous investigation of the resulting differential equations and their dynamic behavior However the authors and editors have made an effort to ensure readability on a non technical level for mathematicians from other fields and for other scientists and engineers The eighteen surveys collected here do not aspire to encyclopedic completeness but present selected paradigms The surveys are grouped into those emphasizing finite dimensional methods numerics topological methods and partial differential equations Application areas include the dynamics of neural networks fluid flows nonlinear optics and many others While the survey articles can be read independently they deeply share recurrent themes from dynamical systems Attractors bifurcations center manifolds dimension reduction ergodicity homoclinicity hyperbolicity invariant and inertial manifolds normal forms recurrence shift dynamics stability to namejust a few are ubiquitous dynamical concepts throughout the articles Geometric Methods in Physics XXXIX Piotr Kielanowski,Alina Dobrogowska,Gerald A. Goldin,Tomasz Goliński,2023-07-21 This volume collects papers based on lectures given at the XXXIX Workshop on Geometric Methods in Physics held in Bia ystok Poland in June 2022 These chapters provide readers an overview of cutting edge research in geometry analysis and a wide variety of other areas Specific topics include Classical and quantum field theories Infinite dimensional groups Integrable systems Lie groupoids and Lie algebroids Representation theory Geometric Methods in Physics XXXIX will be a valuable resource for mathematicians and physicists interested in recent developments at the intersection of these areas **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 Painlev 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 Painlev 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 S minaire de Math mathiques Sup rieurs 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 r s3risingly 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 Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics 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 subdivi sion 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 en gineers 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 discus sions 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 in stances The results of modem quantum theories of strong fields are not presented but they can be found in the fundamental monographs Quantwn Electrodynamics of Strong Fields by W Greiner B Muller J Rafelski Sprioger Verlag Berlin Heidelberg New York 1985 and Quantwn 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 **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 co ordinates 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 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 Painleve Equations in the Differential Geometry of Surfaces Alexander I. Bobenko TU Berlin,Ulrich Eitner,2003-07-01 This book brings together two different branches of mathematics the theory of Painlev and the theory of surfaces Self contained introductions to both these fields are presented It is shown how some classical problems in surface theory can be solved using the modern theory of Painlev equations In particular an essential part of the book is devoted to Bonnet surfaces i e to surfaces possessing families of isometries preserving the mean curvature function A global classification of Bonnet surfaces is given using both ingredients of the theory of Painlev equations the theory of isomonodromic deformation and the Painlev property The book is illustrated by plots of surfaces It is intended to be used by mathematicians and graduate students interested in differential geometry and Painlev equations Researchers working in one of these areas can become familiar with another relevant branch of mathematics

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