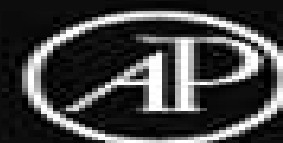


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Scattering Method, Solitons, and Their Applications Robert M. Miura, 2006-11-14 Proceedings of the NSF Research Workshop on Contact Transformations Held in Nashville Tennessee 1974 **Soliton Theory and Its Applications**

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 **Lie-Backlund Transformations in**

Applications Robert L. Anderson, Nail H. Ibragimov, 1979-06-01 This title presents an introduction to the classical treatment of Backlund and general surface transformations and includes detailed and accessible techniques for constructing both groups of transformations which will be of great value to the scientist and engineer in the analysis of mathematical models of physical phenomena Classical and recent examples of Backlund transformations as applied to geometry nonlinear optics turbulence models nonlinear waves and quantum mechanics are given The authors discuss applications of Lie Backlund transformations in mechanics quantum mechanics gas dynamics hydrodynamics and relativity **Bäcklund and Darboux**

Transformations C. Rogers, W. K. Schief, 2002-06-24 This book explores the deep and fascinating connections that exist between a ubiquitous class of physically important waves known as solitons and the theory of transformations of a privileged class of surfaces as they were studied by eminent geometers of the nineteenth century Thus nonlinear equations governing soliton propagation and also mathematical descriptions of their remarkable interaction properties are shown to arise naturally out of the classical differential geometry of surfaces and what are termed Backlund Darboux transformations This text the first of its kind is written in a straightforward manner and is punctuated by exercises to test the understanding of the reader It is suitable for use in higher undergraduate or graduate level courses directed at applied mathematicians or mathematical physics **Bäcklund and Darboux Transformations** A. A. Coley, 2001-01-01 This book is devoted to a

classical topic that has undergone rapid and fruitful development over the past 25 years namely Backlund and Darboux transformations and their applications in the theory of integrable systems also known as soliton theory The book consists of two parts The first is a series of introductory pedagogical lectures presented by leading experts in the field They are devoted respectively to Backlund transformations of Painleve equations to the dressing method and Backlund and Darboux

transformations and to the classical geometry of Backlund transformations and their applications to soliton theory The second part contains original contributions that represent new developments in the theory and applications of these transformations Both the introductory lectures and the original talks were presented at an International Workshop that took place in Halifax Nova Scotia Canada This volume covers virtually all recent developments in the theory and applications of Backlund and Darboux transformations

Inverse Scattering Problems and Their Application to Nonlinear Integrable Equations Pham Loi Vu, 2023-05-15 Inverse Scattering Problems and Their Applications to Nonlinear Integrable Equations Second Edition is devoted to inverse scattering problems ISPs for differential equations and their applications to nonlinear evolution equations NLEEs The book is suitable for anyone who has a mathematical background and interest in functional analysis differential equations and equations of mathematical physics This book is intended for a wide community working with ISPs and their applications There is an especially strong traditional community in mathematical physics In this monograph the problems are presented step by step and detailed proofs are given for considered problems to make the topics more accessible for students who are approaching them for the first time New to the Second Edition All new chapter dealing with the Backlund transformations between a common solution of both linear equations in the Lax pair and the solution of the associated IBVP for NLEEs on the half line Updated references and concluding remarks Features Solving the direct and ISP then solving the associated initial value problem IVP or initial boundary value problem IBVP for NLEEs are carried out step by step The unknown boundary values are calculated with the help of the Lax generalized equations then the time dependent scattering data SD are expressed in terms of preassigned initial and boundary conditions Thereby the potential functions are recovered uniquely in terms of the given initial and calculated boundary conditions The unique solvability of the ISP is proved and the SD of the scattering problem is described completely The considered ISPs are well solved The ISPs are set up appropriately for constructing the Backlund transformations BTs for solutions of associated IBVPs or IVPs for NLEEs The procedure for finding a BT for the IBVP for NLEEs on the half line differs from the one used for obtaining a BT for non linear differential equations defined in the whole space The interrelations between the ISPs and the constructed BTs are established to become new powerful unified transformations UTs for solving IBVPs or IVPs for NLEEs that can be used in different areas of physics and mechanics The application of the UTs is consistent and efficiently embedded in the scheme of the associated ISP

Nonlinear Boundary Value Problems in Science and Engineering C. Rogers, W. F. Ames, 1989-11-14 Overall our object has been to provide an applications oriented text that is reasonably self contained It has been used as the basis for a graduate level course both at the University of Waterloo and at the Centro Studi Applicazioni in Tecnologie Avante Bari Italy The text is aimed in the main at applied mathematicians with a strong interest in physical applications or at engineers working in theoretical mechanics

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nonlinear models whose detailed mathematical solutions are not obtainable To understand some aspects of such dynamics various complementary methods and viewpoints are of crucial importance The presentation and style is intended to stimulate the reader's imagination to apply these methods to a host of problems and situations **Perspectives of Nonlinear**

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Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction-diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed-matter physics among others *Exact Methods for Nonlinear PDEs* Andrei D. Polyani, 2025-08-13 *Exact Methods for Nonlinear PDEs* describes effective analytical methods for finding exact solutions to nonlinear differential equations of mathematical physics and other partial differential equations and also demonstrates the practical applications of these methods It covers the methods of generalized separation of variables methods of functional separation of variables the classical method of symmetry reductions the direct method of symmetry reductions the method of weak symmetry reductions and the method of differential constraints The book presents several simple methods for finding exact solutions to nonlinear partial differential equations PDEs These methods do not require specialized knowledge and aim to minimize intermediate calculations For the first time it discusses the application of nonrigorous intuitive reasoning in deriving exact solutions to nonlinear PDEs Each section provides numerous examples problems and exercises to help readers develop practical skills in applying the methods The material is illustrated with equations of mass and heat transfer hydrodynamics wave theory nonlinear optics and other nonlinear equations of mathematical physics The key points that distinguish this book from others in the field include it presents many methods in a simpler and more visual format it describes a number of simple methods for constructing exact solutions to nonlinear PDEs and delay PDEs it emphasizes and details the practical use of non-rigorous reasoning to derive exact solutions for nonlinear PDEs The book is intended for a diverse audience including researchers university professors engineers postgraduates and

students specializing in applied mathematics theoretical physics and engineering sciences **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Nonlinear Equations in the Applied Sciences** W. F. Ames, 1991-08-16 Nonlinear Equations in the Applied Sciences **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 Lie-Backlund Transformations in Applications Robert L. Anderson, Nail H. Ibragimov, 1979-01-01 This title presents an introduction to the classical treatment of Backlund and general surface transformations and includes detailed and accessible techniques for constructing both groups of transformations which will be of great value to the scientist and engineer in the analysis of mathematical models of physical phenomena Classical and recent examples of Backlund transformations as applied to geometry nonlinear optics turbulence models nonlinear waves and quantum mechanics are given The authors discuss applications of Lie Backlund transformations in mechanics quantum mechanics gas dynamics hydrodynamics and relativity **The Painlevé Handbook** Robert Conte, Micheline Musette, 2020-11-07 This book now in its second edition introduces the singularity analysis of differential and difference equations via the Painlevé test and shows how Painlevé analysis provides a powerful algorithmic approach to building explicit solutions to nonlinear ordinary and partial differential equations It is illustrated with integrable equations such as the nonlinear Schrödinger equation the Korteweg de Vries equation Hirota type Hamiltonians and numerous physically relevant examples such as the Kuramoto Sivashinsky equation the Kolmogorov Petrovski Piskunov equation and mainly the cubic and quintic Ginzburg Landau equations Extensively revised updated and expanded this new edition includes recent insights from Nevanlinna theory and analysis on both the cubic and quintic Ginzburg Landau equations a close look at physical problems involving the sixth Painlevé function and an overview of new results since the book's original publication with special focus on finite difference equations The book features tutorials appendices and comprehensive references and will appeal to graduate students and researchers in both mathematics and the physical sciences **Backlund Transformations, the Inverse Scattering Method, Solitons,**

and Their Applications Robert M. Miura, 2014-01-15

Integrable Hamiltonian Hierarchies Vladimir

Gerdjikov, Gaetano Vilasi, Alexandar Borisov Yanovski, 2008-06-02 This book presents a detailed derivation of the spectral properties of the Recursion Operators allowing one to derive all the fundamental properties of the soliton equations and to study their hierarchies

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