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Symmetries and Integrability of Difference Equations

Edited by

Deniro Iacono, Peter Olver, Zora Thomova
and Peter Winternitz

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Monographs



Symmetries And Integrability Of Difference Equations

Katrin Zwirglmaier

Symmetries And Integrability Of Difference Equations:

Symmetries and Integrability of Difference Equations Decio Levi,Peter Olver,Zora Thomova,Pavel Winternitz,2011-06-23

Difference equations are playing an increasingly important role in the natural sciences. Indeed many phenomena are inherently discrete and are naturally described by difference equations. Phenomena described by differential equations are therefore approximations of more basic discrete ones. Moreover in their study it is very often necessary to resort to numerical methods. This always involves a discretization of the differential equations involved, thus replacing them by difference equations. This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference ones. Each of the eleven chapters is a self contained treatment of a topic containing introductory material as well as the latest research results. The book will be welcomed by graduate students and researchers seeking an introduction to the field. As a survey of the current state of the art it will also serve as a valuable reference.

SIDE III Decio Levi,Orlando Ragnisco,2000-06-15 This volume contains the proceedings of the third meeting on Symmetries and Integrability of Difference Equations SIDE III. The collection includes original results not published elsewhere and articles that give a rigorous but concise overview of their subject and provides a complete description of the state of the art. Research in the field of difference equations often referred to more generally as discrete systems has undergone impressive development in recent years. In this collection the reader finds the most important new developments in a number of areas including Lie type symmetries of differential difference and difference difference equations, integrability of fully discrete systems such as cellular automata, the connection between integrability and discrete geometry, the isomonodromy approach to discrete spectral problems and related discrete Painleve equations, difference and q difference equations and orthogonal polynomials, difference equations and quantum groups, and integrability and chaos in discrete time dynamical systems. The proceedings will be valuable to mathematicians and theoretical physicists interested in the mathematical aspects and/or in the physical applications of discrete nonlinear dynamics with special emphasis on the systems that can be integrated by analytic methods or at least admit special explicit solutions. The research in this volume will also be of interest to engineers working in discrete dynamics as well as to theoretical biologists and economists.

Symmetries and Integrability of Difference Equations ,1996 **Symmetries and Integrability of Difference Equations** Decio Levi,Luc Vinet,Pavel Winternitz, **Continuous Symmetries and Integrability of Discrete Equations** Decio Levi,Pavel Winternitz,Ravil I. Yamilov,2023-01-23 This book on integrable systems and symmetries presents new results on applications of symmetries and integrability techniques to the case of equations defined on the lattice. This relatively new field has many applications for example in describing the evolution of crystals and molecular systems defined on lattices and in finding numerical approximations for differential equations preserving their symmetries. The book contains three chapters and five appendices. The first chapter is an introduction to the general ideas about symmetries lattices.

differential difference and partial difference equations and Lie point symmetries defined on them Chapter 2 deals with integrable and linearizable systems in two dimensions The authors start from the prototype of integrable and linearizable partial differential equations the Korteweg de Vries and the Burgers equations Then they consider the best known integrable differential difference and partial difference equations Chapter 3 considers generalized symmetries and conserved densities as integrability criteria The appendices provide details which may help the readers understanding of the subjects presented in Chapters 2 and 3 This book is written for PhD students and early researchers both in theoretical physics and in applied mathematics who are interested in the study of symmetries and integrability of difference equations

Symmetries and

Integrability of Difference Equations Decio Levi,Raphaël Rebelo,Pavel Winternitz,2018-08-02 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers

Symmetries and Integrability of Difference Equations (SIDEVII) ,2007 **Symmetries and Integrability of Difference Equations (SIDE IV)** Frank W. Nijhoff,Jarmo Hietarinta,Junkichi Satsuma,2001 **SIDE III** ,2000

This volume contains the proceedings of the third meeting on Symmetries and Integrability of Difference Equations SIDE III The collection includes original results not published elsewhere and articles that give a rigorous but concise overview of their subject and provides a complete description of the state of the art Research in the field of difference equations often referred to more generally as discrete systems has undergone impressive development in recent years In this collection the reader finds the most important new developments in a number of areas including Lie type symmet

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Integrability of Difference Equations Peter A. Clarkson,Frank W. Nijhoff,1999 This volume comprises state of the art articles in discrete integrable systems **Special Issue: Symmetries and Integrability of Difference Equations (SIDE IV)** SIDE,J. Hietarinta,2001 **Special Issue** Doliwa, Adam,Korhonen, Risto,Lafortune, Stephane,2007 **Symmetries and Integrability of Difference Equations (SIDEVII)** Adam Doliwa,SIDE,Risto Korhonen,Stéphane Lafourture,2007

Differential Equations - Geometry, Symmetries and Integrability Boris Kruglikov, Valentin Lychagin, Eldar Straume, 2009-07-24

The Abel Symposium 2008 focused on the modern theory of differential equations and their applications in geometry mechanics and mathematical physics. Following the tradition of Monge, Abel and Lie the scientific program emphasized the role of algebro geometric methods which nowadays permeate all mathematical models in natural and engineering sciences. The ideas of invariance and symmetry are of fundamental importance in the geometric approach to differential equations with a serious impact coming from the area of integrable systems and field theories. This volume consists of original contributions and broad overview lectures of the participants of the Symposium. The papers in this volume present the modern approach to this classical subject

Discrete Systems and Integrability J. Hietarinta, N. Joshi, F. W. Nijhoff, 2016-08-19

This first introductory text to discrete integrable systems introduces key notions of integrability from the vantage point of discrete systems also making connections with the continuous theory where relevant. While treating the material at an elementary level the book also highlights many recent developments. Topics include Darboux and Bäcklund transformations, difference equations and special functions, multidimensional consistency of integrable lattice equations, associated linear problems, Lax pairs, connections with Padé approximants and convergence algorithms, singularities and geometry, Hirota's bilinear formalism for lattices, intriguing properties of discrete Painlevé equations and the novel theory of Lagrangian multiforms. The book builds the material in an organic way emphasizing interconnections between the various approaches while the exposition is mostly done through explicit computations on key examples. Written by respected experts in the field the numerous exercises and the thorough list of references will benefit upper level undergraduate and beginning graduate students as well as researchers from other disciplines

Journal of Physics A, 2002 Focuses on fundamental mathematical and computational methods underpinning physics. Relevant to statistical physics, chaotic and complex systems, classical and quantum mechanics, classical and quantum integrable systems and classical and quantum field theory

Journal of Physics , 2002

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