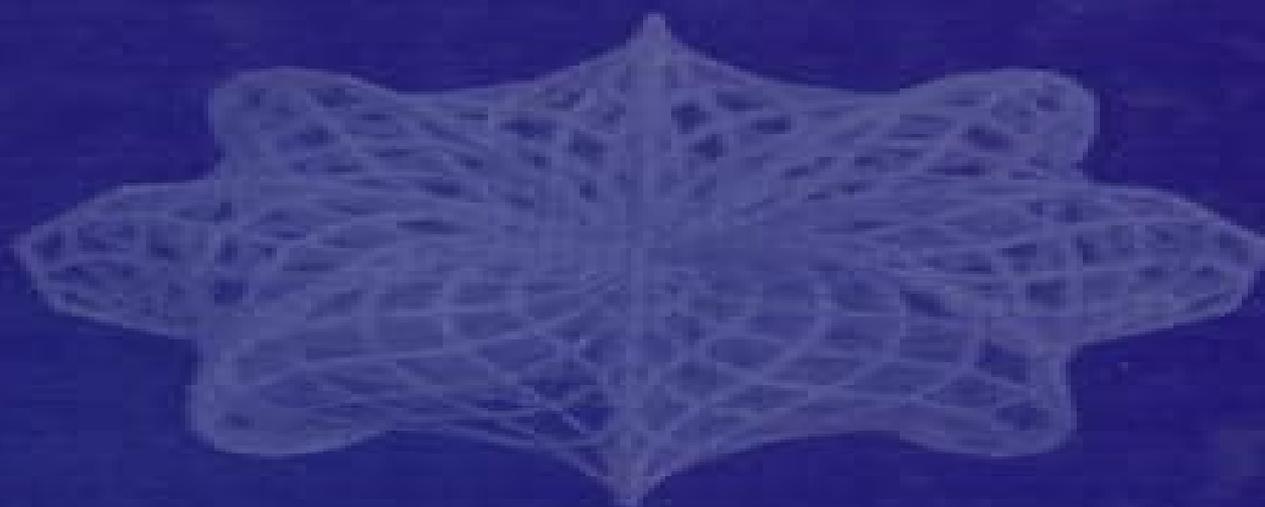


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Discrete Integrable Geometry and Physics

Edited by

ALEXANDER I. BOBENKO
and Ruedi Seiler



OXFORD SCIENCE PUBLICATIONS

Discrete Integrable Geometry And Physics

Decio Levi, Orlando Ragnisco



Discrete Integrable Geometry And Physics:

Discrete Integrable Geometry and Physics Alexander I. Bobenko, Ruedi Seiler, 1999 Recent interactions between the fields of geometry classical and quantum dynamical systems and visualization of geometric objects such as curves and surfaces have led to the observation that most concepts of surface theory and of the theory of integrable systems have natural discrete analogues These are characterized by the property that the corresponding difference equations are integrable and has led in turn to some important applications in areas of condensed matter physics and quantum field theory amongst others The book combines the efforts of a distinguished team of authors from various fields in mathematics and physics in an effort to provide an overview of the subject The mathematical concepts of discrete geometry and discrete integrable systems are firstly presented as fundamental and valuable theories in themselves In the following part these concepts are put into the context of classical and quantum dynamics

Advances in Discrete Differential Geometry Alexander I. Bobenko, 2016-08-12 This is one of the first books on a newly emerging field of discrete differential geometry and an excellent way to access this exciting area It surveys the fascinating connections between discrete models in differential geometry and complex analysis integrable systems and applications in computer graphics The authors take a closer look at discrete models in differential geometry and dynamical systems Their curves are polygonal surfaces are made from triangles and quadrilaterals and time is discrete Nevertheless the difference between the corresponding smooth curves surfaces and classical dynamical systems with continuous time can hardly be seen This is the paradigm of structure preserving discretizations Current advances in this field are stimulated to a large extent by its relevance for computer graphics and mathematical physics This book is written by specialists working together on a common research project It is about differential geometry and dynamical systems smooth and discrete theories and on pure mathematics and its practical applications The interaction of these facets is demonstrated by concrete examples including discrete conformal mappings discrete complex analysis discrete curvatures and special surfaces discrete integrable systems conformal texture mappings in computer graphics and free form architecture This richly illustrated book will convince readers that this new branch of mathematics is both beautiful and useful It will appeal to graduate students and researchers in differential geometry complex analysis mathematical physics numerical methods discrete geometry as well as computer graphics and geometry processing

Discrete Differential Geometry Alexander I. Bobenko, Yuri B. Suris, 1990

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classes and periodic QRT maps Later chapters cover these topics and more in detail While QRT maps will be familiar to specialists in algebraic geometry the present volume makes the subject accessible to mathematicians and graduate students in a classroom setting or for self study

Algebraic and Geometric Aspects of Integrable Systems and Random Matrices Anton Dzhamay, Ken'ichi Maruno, Virgil U. Pierce, 2013-06-26 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Aspects of Integrable Systems and Random Matrices held from January 6 7 2012 in Boston MA The very wide range of topics represented in this volume illustrates

Discrete Differential Geometry Alexander I. Bobenko, Yuri B. Suris, 2008 An emerging field of discrete differential geometry aims at the development of discrete equivalents of notions and methods of classical differential geometry The latter appears as a limit of a refinement of the discretization Current interest in discrete differential geometry derives not only from its importance in pure mathematics but also from its applications in computer graphics theoretical physics architecture and numerics Rather unexpectedly the very basic structures of discrete differential geometry turn out to be related to the theory of Integrable systems One of the main goals of this book is to reveal this integrable structure of discrete differential geometry The intended audience of this book is threefold It is a textbook on discrete differential geometry and integrable systems suitable for a one semester graduate course On the other hand it is addressed to specialists in geometry and mathematical physics It reflects the recent progress in discrete differential geometry and contains many original results The third group of readers at which this book is targeted is formed by specialists in geometry processing computer graphics architectural design numerical simulations and animation They may find here answers to the question How do we discretize differential geometry arising in their specific field

Geometric Approaches to Differential Equations Peter J. Vassiliou, Ian G. Lisle, 2000-03-13 A concise and accessible introduction to the wide range of topics in geometric approaches to differential equations

Symmetries and Integrability of Difference Equations Decio Levi, Raphaël Rebelo, Pavel Winternitz, 2017-06-30 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

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

Mathematical Visualization H.-C. Hege, K. Polthier, 2013-03-09 Mathematical Visualization is a young new discipline It offers efficient visualization tools to the classical subjects of mathematics and applies mathematical techniques to problems in computer graphics and scientific visualization Originally it started in the interdisciplinary area of differential geometry numerical mathematics and computer graphics In recent years the methods developed have found important applications The current volume is the quintessence of an international workshop in September 1997 in Berlin focusing on recent developments in this emerging area Experts present selected research work on new algorithms for visualization problems describe the application and experiments in geometry and develop new numerical or computer graphical techniques

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 Bäcklund 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 Bäcklund transformations of Painlevé equations to the dressing method and Bäcklund and Darboux transformations and to the classical geometry of Bäcklund 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 Bäcklund and Darboux transformations

Discrete Integrable Systems J.J. Duistermaat, 2010-09-15 This book is devoted to Quisped Roberts and Thompson QRT maps considered as automorphisms of rational elliptic surfaces The theory of QRT maps arose from problems in mathematical physics involving difference equations The application of QRT maps to these and other

problems in the literature including Poncelet mapping and the elliptic billiard is examined in detail The link between elliptic fibrations and completely integrable Hamiltonian systems is also discussed The book begins with a comprehensive overview of the subject including QRT maps singularity confinement automorphisms of rational elliptic surfaces action on homology classes and periodic QRT maps Later chapters cover these topics and more in detail While QRT maps will be familiar to specialists in algebraic geometry the present volume makes the subject accessible to mathematicians and graduate students in a classroom setting or for self study

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

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 Painlevé 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

Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to

provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work. The Encyclopedia does contain information that has been distilled, organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain. It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information. Editorial Board: Jean Pierre Francoise, Universit Pierre et Marie Curie, Paris, France; Gregory L Naber, Drexel University, Philadelphia, PA, USA; Tsou Sheung Tsun, University of Oxford, UK. Also available online via ScienceDirect, 2006, featuring extensive browsing, searching and internal cross referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy.

Solitons, Geometry, and Topology, 1999
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.
Mathematical Reviews, 2003
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