MATHEMATICAL MONOGRAPHS

Volume 223

Painlevé Equations through Symmetry

Masatoshi Noumi



American Mathematical Society

Painleve Equations Through Symmetry

Hiroyuki Ochiai, Ken Anjyo

Painleve Equations Through Symmetry:

Painleve Equations through Symmetry Masatoshi Noumi,2004-01-01 This book is devoted to the symmetry of Painleve equations especially those of types II and IV The author studies families of transformations for several types of Painleve equations Qthe so called Backlund transformations Qwhich transform solutions of a given Painleve equation to solutions of the same equation with a different set of parameters It turns out that these symmetries can be interpreted in terms of root systems associated to affine Weyl groups The author describes the remarkable combinatorial structures of these symmetries and shows how they are related to the theory of tau functions associated to integrable systems Painlevé Equations Orthogonal Polynomials and Painlevé Equations Walter Van **Through Symmetry** Masatoshi Noumi,2004 Assche, 2018 There are a number of intriguing connections between Painlev equations and orthogonal polynomials and this book is one of the first to provide an introduction to these Researchers in integrable systems and non linear equations will find the many explicit examples where Painlev equations appear in mathematical analysis very useful Those interested in the asymptotic behavior of orthogonal polynomials will also find the description of Painlev transcendants and their use for local analysis near certain critical points helpful to their work Rational solutions and special function solutions of Painlev equations are worked out in detail with a survey of recent results and an outline of their close relationship with orthogonal polynomials Exercises throughout the book help the reader to get to grips with the material The author is a leading authority on orthogonal polynomials giving this work a unique perspective on Painlev equations **Discrete Painlevé Equations** Nalini Joshi, 2019-05-30 Discrete Painley equations are nonlinear difference equations which arise from translations on crystallographic lattices. The deceptive simplicity of this statement hides immensely rich mathematical properties connecting dynamical systems algebraic geometry Coxeter groups topology special functions theory and mathematical physics This book necessarily starts with introductory material to give the reader an accessible entry point to this vast subject matter It is based on lectures that the author presented as principal lecturer at a Conference Board of Mathematical Sciences and National Science Foundation conference in Texas in 2016 Instead of technical theorems or complete proofs the book relies on providing essential points of many arguments through explicit examples with the hope that they will be useful for applied mathematicians and physicists 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 Painlevé Transcendents Athanassios S. Fokas, Alexander R. Its, Andrei A. Kapaev, Victor Yu. Novokshenov, 2023-11-20 At the turn of the twentieth century the French mathematician Paul Painlev and his students classified second order nonlinear ordinary differential equations with the property that the location of possible branch points and essential singularities of their solutions does not depend on initial conditions It turned out that there are only six such equations up to natural equivalence which later became known as Painlev I VI Although these equations were initially obtained answering a strictly mathematical question they appeared later in an astonishing and growing range of applications including e g statistical physics fluid mechanics random matrices and orthogonal polynomials Actually it is now becoming clear that the Painlev transcendents i e the solutions of the Painlev equations play the same role in nonlinear mathematical physics that the classical special functions such as Airy and Bessel functions play in linear physics The explicit formulas relating the asymptotic behaviour of the classical special functions at different critical points play a crucial role in the applications of these functions It is shown in this book that even though the six Painlev equations are nonlinear it is still possible using a new technique called the Riemann Hilbert formalism to obtain analogous explicit formulas for the Painlev transcendents This striking fact apparently unknown to Painlev and his contemporaries is the key ingredient for the remarkable applicability of these nonlinear special functions The book describes in detail the Riemann Hilbert method and emphasizes its close connection to classical monodromy theory of linear equations as well as to modern theory of integrable systems In addition the book contains an ample collection of material concerning the asymptotics of the Painlev functions and their various applications which makes it a good reference source for everyone working in the theory and applications of Painlev equations and related areas Painlevé III: A Case Study in the Geometry of Meromorphic Connections Martin A. Guest, Claus Hertling, 2017-10-14 The purpose of this monograph is two fold it introduces a conceptual language for the geometrical objects underlying Painlev equations and it offers new results on a particular Painlev III equation of type PIII D6 called PIII 0 0 4 4 describing its relation to isomonodromic families of vector bundles on P1 with meromorphic connections This equation is equivalent to the radial sine or sinh Gordon equation and as such it appears widely in geometry and physics It is used here as a very concrete and classical illustration of the modern theory of vector bundles with meromorphic connections Complex multi valued solutions on C are the natural context for most of the monograph but in the last four

chapters real solutions on R 0 with or without singularities are addressed These provide examples of variations of TERP structures which are related to tt geometry and harmonic bundles As an application a new global picture o0 is given

Orthogonal Polynomials and Special Functions Francisco Marcellàn, 2006-06-19 Special functions and orthogonal polynomials in particular have been around for centuries Can you imagine mathematics without trigonometric functions the exponential function or polynomials In the twentieth century the emphasis was on special functions satisfying linear differential equations but this has now been extended to difference equations partial differential equations and non linear differential equations The present set of lecture notes containes seven chapters about the current state of orthogonal polynomials and special functions and gives a view on open problems and future directions. The topics are computational methods and software for quadrature and approximation equilibrium problems in logarithmic potential theory discrete orthogonal polynomials and convergence of Krylov subspace methods in numerical linear algebra orthogonal rational functions and matrix orthogonal rational functions orthogonal polynomials in several variables Jack polynomials and separation of variables a classification of finite families of orthogonal polynomials in Askey's scheme using Leonard pairs and non linear special functions associated with the Painlev equations **Nonlinear Systems and Their Remarkable** Mathematical Structures Norbert Euler, Maria Clara Nucci, 2019-12-06 Nonlinear Systems and Their Remarkable Mathematical Structures Volume 2 is written in a careful pedagogical manner by experts from the field of nonlinear differential equations and nonlinear dynamical systems both continuous and discrete This book aims to clearly illustrate the mathematical theories of nonlinear systems and its progress to both non experts and active researchers in this area Just like the first volume this book is suitable for graduate students in mathematics applied mathematics and engineering sciences as well as for researchers in the subject of differential equations and dynamical systems Features Collects contributions on recent advances in the subject of nonlinear systems Aims to make the advanced mathematical methods accessible to the non experts Suitable for a broad readership including researchers and graduate students in mathematics and applied mathematics Quantum Bounded Symmetric Domains Leonid L'vovych Vaksman, 2010 Explores the basic theory of quantum bounded symmetric domains The area became active in the late 1990s at a junction of noncommutative complex analysis and extensively developing theory of quantum groups In a surprising advance of the theory of quantum bounded symmetric domains it turned out that many classical problems admit elegant quantum analogs Some of those are expounded in the book The Painlevé Handbook Robert M. Conte, Micheline Musette, 2008-11-23 Nonlinear differential or difference equations are encountered not only in mathematics but also in many areas of physics evolution equations propagation of a signal in an optical fiber chemistry reaction diffusion systems and biology competition of species This book introduces the reader to methods allowing one to build explicit solutions to these equations A prerequisite task is to investigate whether the chances of success are high or low and this can be achieved without any a priori knowledge of the solutions with a powerful

algorithm presented in detail called the Painley test If the equation under study passes the Painley test the equation is presumed integrable If on the contrary the test fails the system is nonintegrable or even chaotic but it may still be possible to find solutions The examples chosen to illustrate these methods are mostly taken from physics These include on the integrable side the nonlinear Schr dinger equation continuous and discrete the Korteweg de Vries equation the H non Heiles Hamiltonians on the nonintegrable side the complex Ginzburg Landau equation encountered in optical fibers turbulence etc the Kuramoto Sivashinsky equation phase turbulence the Kolmogorov Petrovski Piskunov equation KPP a reaction diffusion model the Lorenz model of atmospheric circulation and the Bianchi IX cosmological model Written at a graduate level the book contains tutorial text as well as detailed examples and the state of the art on some current research Differential Equations: Ordinary Differential Equations Flaviano Battelli, Michal Feckan, 2008-08-19 This handbook is the fourth volume in a series of volumes devoted to self contained and up to date surveys in the theory of ordinary differential equations with an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wider audience Covers a variety of problems in ordinary differential equations Pure mathematical and real world applications Written for mathematicians and scientists of many related fields <u>Differential Equations in the Complex Domain</u> Yoshishige Haraoka, 2020-11-16 This book provides a detailed introduction to recent developments in the theory of linear differential systems and integrable total differential systems Starting from the basic theory of linear ordinary differential equations and integrable systems it proceeds to describe Katz theory and its applications extending it to the case of several variables In addition connection problems deformation theory and the theory of integral representations are comprehensively covered Complete proofs are given offering the reader a precise account of the classical and modern theory of linear differential equations in the complex domain including an exposition of Pfaffian systems and their monodromy problems The prerequisites are a course in complex analysis and the basics of differential equations topology and differential geometry This book will be useful for graduate students specialists in differential equations and for non specialists who want to use differential equations 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 B cklund transformations difference equations and special functions multidimensional consistency of integrable lattice equations associated linear problems Lax pairs connections with Pad approximants and convergence algorithms singularities and geometry Hirota's bilinear formalism for lattices intriguing properties of discrete Painley 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 *Painlevé Equations and Related Topics* Alexander D. Bruno, Alexander B. Batkhin, 2012-08-31 This is a proceedings of the international conference Painlev Equations and Related Topics which was taking place at the Euler International Mathematical Institute a branch of the Saint Petersburg Department of the Steklov Institute of Mathematics of the Russian Academy of Sciences in Saint Petersburg on June 17 to 23 2011 The survey articles discuss the following topics General ordinary differential equations Painlev equations and their generalizations Painlev property Discrete Painlev equations Properties of solutions of all mentioned above equations Asymptotic forms and asymptotic expansions Connections of asymptotic forms of a solution near different points Convergency and asymptotic character of a formal solution New types of asymptotic forms and asymptotic expansions Riemann Hilbert problems Isomonodromic deformations of linear systems Symmetries and transformations of solutions Algebraic solutions Reductions of PDE to Painlev equations and their generalizations Ordinary Differential Equations systems equivalent to Painlev equations and their generalizations of the equations and the solutions

Mathematical Tools for Physicists Michael Grinfeld, 2015-01-12 The new edition is significantly updated and expanded This unique collection of review articles ranging from fundamental concepts up to latest applications contains individual contributions written by renowned experts in the relevant fields Much attention is paid to ensuring fast access to the information with each carefully reviewed article featuring cross referencing references to the most relevant publications in the field and suggestions for further reading both introductory as well as more specialized While the chapters on group theory integral transforms Monte Carlo methods numerical analysis perturbation theory and special functions are thoroughly rewritten completely new content includes sections on commutative algebra computational algebraic topology differential geometry dynamical systems functional analysis graph and network theory PDEs of mathematical physics probability theory stochastic differential equations and variational methods 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. Difference Equations, Special Functions And Orthogonal Polynomials - Proceedings Of The International Conference Jim M Cushing, Saber N Elaydi, Rupert Lasser, Vassilis Papageorgiou, Andreas Ruffing, Walter Van Assche, 2007-05-21 This volume contains talks given at a joint meeting of three communities working in the fields of difference equations special functions and applications ISDE OPSFA and SIDE The articles reflect the diversity of the topics in the meeting but have difference equations as common thread Articles cover topics in difference equations discrete dynamical systems special functions orthogonal polynomials symmetries and integrable difference equations.

Homogenization Gregori A. Chechkin, Andrei L. Piatnitskii, Aleksei S. Shamev,

Mathematical Progress in Expressive Image Synthesis II Hiroyuki Ochiai, Ken Anjyo, 2015-06-10 The material included in this book provides selected presentations given at the international symposium MEIS2014 The book aims to provide a unique venue where various issues in computer graphics CG application fields are discussed by mathematicians as well as CG researchers and practitioners The target audience is not limited to researchers in academia but also those in industries with a strong interest in digital media creation scientific visualization and visual engineering

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