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Valerii I. Gromak, Ilpo Laine, Shun Shimomura

PAINLEVÉ DIFFERENTIAL EQUATIONS IN THE COMPLEX PLANE

DE GRUYTER STUDIES IN MATHEMATICS

Painlevé Differential Equations In The Complex Plane

Masatoshi Noumi



Painlevé Differential Equations In The Complex Plane:

Painlevé Differential Equations in the Complex Plane Valerii Ivanovich Gromak, Ilpo Laine, Shun Shimomura, 2002
Annotation Focusing on five of the 50 Painlevé equations two of which are modified to make the meromorphic like the others
Gromak mathematics and mechanics Belarussian State U Belarus Laine mathematics U of Joensuu Finland and Shimomura
mathematics Keio U Japan investigate their growth and value distributions The core of the book is devoted to the integration
of the equations in terms of elementary functions or some classical transcendental functions such as the Airy Bessel or
hypergeometric functions e.g. the Bäcklund transformations A final chapter describes some applications of the equations
relevant to such areas as hydrodynamics plasma physics nonlinear optics and solid state physics Annotation c 2003 Book
News Inc Portland OR booknews.com *Painlevé Differential Equations in the Complex Plane* Valerii I. Gromak, Ilpo
Laine, Shun Shimomura, 2008-08-22 This book is the first comprehensive treatment of Painlevé differential equations in the
complex plane Starting with a rigorous presentation for the meromorphic nature of their solutions the Nevanlinna theory will
be applied to offer a detailed exposition of growth aspects and value distribution of Painlevé transcendents The subsequent
main part of the book is devoted to topics of classical background such as representations and expansions of solutions
solutions of special type like rational and special transcendental solutions Bäcklund transformations and higher order
analogues treated separately for each of these six equations The final chapter offers a short overview of applications of
Painlevé equations including an introduction to their discrete counterparts Due to the present important role of Painlevé
equations in physical applications this monograph should be of interest to researchers in both mathematics and physics and
to graduate students interested in mathematical physics and the theory of differential equations Painlevé Transcendents
A. S. Fokas, 2006 At the turn of the twentieth century the French mathematician Paul Painlevé 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 Painlevé 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 Painlevé transcendents i.e. the solutions of the Painlevé 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 Painlevé equations are nonlinear it is still
possible using a new technique called the Riemann–Hilbert formalism to obtain analogous explicit formulas for the Painlevé
transcendents This striking fact apparently unknown to Painlevé 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 Painlevé functions and their various applications which makes it a good reference source for everyone working in the theory and applications of Painlevé equations and related areas *Painlevé Equations through Symmetry* Masatoshi Noumi, 2004-01-01 This book is devoted to the symmetry of Painlevé equations especially those of types II and IV The author studies families of transformations for several types of Painlevé equations the so called Backlund transformations which transform solutions of a given Painlevé 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 *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 Hirose 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 *Painlevé Equations and Related Topics* Alexander D. Bruno, Alexander B. Batkhin, 2012-08-31 This is a proceedings of the international conference Painlevé 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 Painlevé equations and their generalizations Painlevé property Discrete Painlevé 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 Painlevé equations and their generalizations Ordinary Differential Equations systems equivalent to Painlevé

equations and their generalizations Applications of the equations and the solutions **Orthogonal Polynomials and Special Functions** Francisco Marcellán, 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 contains 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 Painlevé equations

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 Painlevé 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 Painlevé 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 Painlevé transcendents i.e. the solutions of the Painlevé 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 Painlevé equations are nonlinear it is still possible using a new technique called the Riemann–Hilbert formalism to obtain analogous explicit formulas for the Painlevé transcendents This striking fact apparently unknown to Painlevé 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 Painlevé functions and their various applications which makes it a good reference source for everyone working in the theory and applications of Painlevé equations and related areas *Divergent Series, Summability and Resurgence III* Eric Delabaere, 2016-06-28 The aim of this volume is two fold First to show how the resurgent methods introduced in volume 1 can be applied efficiently in a non linear setting to

this end further properties of the resurgence theory must be developed Second to analyze the fundamental example of the First Painlevé equation The resurgent analysis of singularities is pushed all the way up to the so called bridge equation which concentrates all information about the non linear Stokes phenomenon at infinity of the First Painlevé equation The third in a series of three entitled Divergent Series Summability and Resurgence this volume is aimed at graduate students mathematicians and theoretical physicists who are interested in divergent power series and related problems such as the Stokes phenomenon The prerequisites are a working knowledge of complex analysis at the first year graduate level and of the theory of resurgence as presented in volume 1 Group Theory and Numerical Analysis Pavel Winternitz, 2005 The Workshop on Group Theory and Numerical Analysis brought together scientists working in several different but related areas The unifying theme was the application of group theory and geometrical methods to the solution of differential and difference equations The emphasis was on the combination of analytical and numerical methods and also the use of symbolic computation This meeting was organized under the auspices of the Centre de Recherches Mathématiques Université de Montréal Canada This volume has the character of a monograph and should represent a useful reference book for scientists working in this highly topical field

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Table of Contents Painlevé Differential Equations In The Complex Plane

1. Understanding the eBook Painlevé Differential Equations In The Complex Plane
 - The Rise of Digital Reading Painlevé Differential Equations In The Complex Plane
 - Advantages of eBooks Over Traditional Books
2. Identifying Painlevé Differential Equations In The Complex Plane
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Painlevé Differential Equations In The Complex Plane
 - User-Friendly Interface
4. Exploring eBook Recommendations from Painlevé Differential Equations In The Complex Plane
 - Personalized Recommendations
 - Painlevé Differential Equations In The Complex Plane User Reviews and Ratings
 - Painlevé Differential Equations In The Complex Plane and Bestseller Lists
5. Accessing Painlevé Differential Equations In The Complex Plane Free and Paid eBooks
 - Painlevé Differential Equations In The Complex Plane Public Domain eBooks
 - Painlevé Differential Equations In The Complex Plane eBook Subscription Services

- Painlevé Differential Equations In The Complex Plane Budget-Friendly Options
- 6. Navigating Painlevé Differential Equations In The Complex Plane eBook Formats
 - ePub, PDF, MOBI, and More
 - Painlevé Differential Equations In The Complex Plane Compatibility with Devices
 - Painlevé Differential Equations In The Complex Plane Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Painlevé Differential Equations In The Complex Plane
 - Highlighting and Note-Taking Painlevé Differential Equations In The Complex Plane
 - Interactive Elements Painlevé Differential Equations In The Complex Plane
- 8. Staying Engaged with Painlevé Differential Equations In The Complex Plane
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Painlevé Differential Equations In The Complex Plane
- 9. Balancing eBooks and Physical Books Painlevé Differential Equations In The Complex Plane
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Painlevé Differential Equations In The Complex Plane
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Painlevé Differential Equations In The Complex Plane
 - Setting Reading Goals Painlevé Differential Equations In The Complex Plane
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Painlevé Differential Equations In The Complex Plane
 - Fact-Checking eBook Content of Painlevé Differential Equations In The Complex Plane
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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