

Hideyuki Majima

Asymptotic Analysis for Integrable Connections with Irregular Singular Points

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H. Majima



Asymptotic Analysis For Integrable Connections With Irregular Singular Points:

Asymptotic Analysis for Integrable Connections with Irregular Singular Points H. Majima, 2006-11-14 Using strongly asymptotic expansions of functions of several variables we prove existence theorems of asymptotic solutions to integrable systems of partial differential equations of the first order with irregular singular points under certain general conditions We also prove analytic splitting lemmas for completely integrable linear Pfaffian systems Moreover for integrable connections with irregular singular points we formulate and solve the Riemann Hilbert Birkhoff problem and prove analogues of Poincaré's lemma and de Rham cohomology theorem under certain general conditions

Asymptotic Analysis for Integrable Connections with Irregular Singular Points Hideyuki Majima, 1984 *Asymptotic Analysis for Integrable Connections with Irregular Singular Points* Edward William Stredulinsky, Hideyuki Majima, 1984

Linear Differential Equations in the Complex Domain 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

ICM-90 Satellite Conference Proceedings Masaki Kashiwara, Tetsuji Miwa, 2012-12-06 The 1990 Hayashibara Forum the International Conference on Special Functions was held at Fujisaki Institute Hayashibara Biochemical Laboratories Inc Okayama Japan for five days August 16 20 1990 This volume is the proceedings for that meeting On January 14 1985 Heisuke Hironaka and Ken Hayashibara the president of Chairman Board of Trustees Hayashibara Foundation met and decided to have an international conference on mathematics in the summer of 1990 This was pushed forward by Kiyosi Ito who proposed Special functions as the theme of the conference He also asked the present editors to join in the organizing committee of the Hayashibara Forum 1990 On May 13 1989 the organizing committee sent letters to major Japanese mathematical institutions asking their members to give suggestions about whom it should invite Receiving the replies the organizing committee decided the invited speakers and sent invitation letters to them in which it was written that Special functions have been created and explored to describe scientific and mathematical phenomena Trigonometric functions give the relation of angle to length Riemann's zeta function was invented in order to describe the prime number distribution Legendre's spherical functions and Bessel's functions were born in connection with the eigenvalue problems for partial differential equations

Galois Theory of Linear Differential Equations Marius van der Put, Michael F.

Singer,2012-12-06 Linear differential equations form the central topic of this volume Galois theory being the unifying theme A large number of aspects are presented algebraic theory especially differential Galois theory formal theory classification algorithms to decide solvability in finite terms monodromy and Hilbert's 21st problem asymptotics and summability the inverse problem and linear differential equations in positive characteristic The appendices aim to help the reader with concepts used from algebraic geometry linear algebraic groups sheaves and tannakian categories that are used This volume will become a standard reference for all mathematicians in this area of mathematics including graduate students

Structure Of Solutions Of Differential Equations Takahiro Kawai,1996-04-25 A collection of papers on current topics and future problems in the theory of differential equations which were reported at the Taniguchi symposium Katata and RIMS symposium Kyoto Painlevé transcendents Borel resummation linear differential equations of infinite order solvability of microdifferential equations Gevrey index etc are among them

The Stokes Phenomenon And Hilbert's 16th Problem

B L J Braaksma,G K Immink,M Van Der Put,1996-05-06 The 16th Problem of Hilbert is one of the most famous remaining unsolved problems of mathematics It concerns whether a polynomial vector field on the plane has a finite number of limit cycles There is a strong connection with divergent solutions of differential equations where a central role is played by the Stokes Phenomenon the change in asymptotic behaviour of the solutions in different sectors of the complex plane The contributions to these proceedings survey both of these themes including historical and modern theoretical points of view Topics covered include the Riemann Hilbert problem Painlevé equations nonlinear Stokes phenomena and the inverse Galois problem

Linear Differential Equations in the Complex Domain Yasutaka Sibuya,2008-06-26 This book is a translation of a 1976 book originally written in Japanese The main attention is paid to intrinsic aspects of problems related to linear ordinary differential equations in complex domains Examples of the problems discussed in the book include the Riemann problem on the Riemann sphere a characterization of regular singularities and a classification of meromorphic differential equations Since the original book was published many new ideas have developed such as applications of D modules Gevrey asymptotics cohomological methods k summability and studies of differential equations containing parameters Five appendices added in the present edition briefly cover these new ideas In addition more than 100 references have been added This book introduces the reader to the essential facts concerning the structure of solutions of linear differential equations in the complex domain and illuminates the intrinsic meaning of older results by means of more modern ideas A useful reference for research mathematicians this book would also be suitable as a textbook in a graduate course or seminar

Mathematical Analysis and Applications Michael Ruzhansky,Hemen Dutta,Ravi P. Agarwal,2018-05-11 An authoritative text that presents the current problems theories and applications of mathematical analysis research Mathematical Analysis and Applications Selected Topics offers the theories methods and applications of a variety of targeted topics including operator theory approximation theory fixed point theory stability theory minimization problems many body wave scattering problems Basel

problem Corona problem inequalities generalized normed spaces variations of functions and sequences analytic generalizations of the Catalan Fuss and Fuss Catalan Numbers asymptotically developable functions convex functions Gaussian processes image analysis and spectral analysis and spectral synthesis The authors a noted team of international researchers in the field highlight the basic developments for each topic presented and explore the most recent advances made in their area of study The text is presented in such a way that enables the reader to follow subsequent studies in a burgeoning field of research This important text Presents a wide range of important topics having current research importance and interdisciplinary applications such as game theory image processing creation of materials with a desired refraction coefficient etc Contains chapters written by a group of esteemed researchers in mathematical analysis Includes problems and research questions in order to enhance understanding of the information provided Offers references that help readers advance to further study Written for researchers graduate students educators and practitioners with an interest in mathematical analysis Mathematical Analysis and Applications Selected Topics includes the most recent research from a range of mathematical fields

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