

ORDINARY  
DIFFERENTIAL  
EQUATIONS  
IN THE  
COMPLEX  
DOMAIN

EINAR HILLE

# Ordinary Differential Equations In The Complex Domain

**Flaviano Battelli,Michal Feckan**

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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 [\*Principal Solutions of Ordinary Differential Equations in the Complex Domain\*](#) Walter Strodt, 1957 [\*Principal Solutions of Ordinary Differential Equations in the Complex Domain\*](#) Walter Strodt, 1966

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Equations in the Complex Domain and Special Functions ,1989 **A Panorama of Pure Mathematics, As Seen by N. Bourbaki** ,1982-08-18 A Panorama of Pure Mathematics As Seen by N Bourbaki **Handbook of 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 *Ordinary Differential Equations* Edward Lindsay Ince,1927 *Formal And Analytic Solutions Of Differential Equations* Galina Filipuk,Alberto Lastra,Slawomir Michalik,2022-03-03 The book provides the reader with an overview of the actual state of research in ordinary and partial differential equations in the complex domain Topics include summability and asymptotic study of both ordinary and partial differential equations and also q difference and differential difference equations This book will be of interest to researchers and students who wish to expand their knowledge of these fields With the latest results and research developments and contributions from experts in their field Formal and Analytic Solutions of Differential Equations provides a valuable contribution to methods techniques different mathematical tools and study calculations *Contributions to the Asymptotic Theory of Ordinary Differential Equations in the Complex Domain* Walter Strodt,1954 *Contributions to the Asymptotic Theory of Ordinary Differential Equations in the Complex Domain* Alexandre Grothendieck,George B. Seligman,Isidore Isaac Hirschman,Laurence Chisholm Young,Lynn H. Loomis,Pierre E. Conner,Walter Strodt,1954

**Ordinary Differential Equations and Dynamical Systems** Gerald Teschl,2024-01-12 This book provides a self contained introduction to ordinary differential equations and dynamical systems suitable for beginning graduate students The first part begins with some simple examples of explicitly solvable equations and a first glance at qualitative methods Then the fundamental results concerning the initial value problem are proved existence uniqueness extensibility dependence on initial conditions Furthermore linear equations are considered including the Floquet theorem and some perturbation results As somewhat independent topics the Frobenius method for linear equations in the complex domain is established and Sturm Liouville boundary value problems including oscillation theory are investigated The second part introduces the concept of a dynamical system The Poincar Bendixson theorem is proved and several examples of planar systems from classical mechanics ecology and electrical engineering are investigated Moreover attractors Hamiltonian systems the KAM theorem and periodic solutions are discussed Finally stability is studied including the stable manifold and the Hartman Grobman theorem for both continuous and discrete systems The third part introduces chaos beginning with the basics for iterated interval maps and ending with the Smale Birkhoff theorem and the Melnikov method for homoclinic orbits The text contains almost three hundred exercises Additionally the use of mathematical software systems is incorporated throughout showing how they can

help in the study of differential equations     *Complex Differential and Difference Equations* Galina Filipuk,Alberto Lastra,Sławomir Michalik,Yoshitsugu Takei,Henryk Żołądek,2019-11-18 With a balanced combination of longer survey articles and shorter peer reviewed research level presentations on the topic of differential and difference equations on the complex domain this edited volume presents an up to date overview of areas such as WKB analysis summability resurgence formal solutions integrability and several algebraic aspects of differential and difference equations     *Symmetries, Differential Equations and Applications* Victor G. Kac,Peter J. Olver,Pavel Winternitz,Teoman Özer,2018-11-04 Based on the third International Conference on Symmetries Differential Equations and Applications SDEA III this proceedings volume highlights recent important advances and trends in the applications of Lie groups including a broad area of topics in interdisciplinary studies ranging from mathematical physics to financial mathematics The selected and peer reviewed contributions gathered here cover Lie theory and symmetry methods in differential equations Lie algebras and Lie pseudogroups super symmetry and super integrability representation theory of Lie algebras classification problems conservation laws and geometrical methods The SDEA III held in honour of the Centenary of Noether's Theorem proven by the prominent German mathematician Emmy Noether at Istanbul Technical University in August 2017 provided a productive forum for academic researchers both junior and senior and students to discuss and share the latest developments in the theory and applications of Lie symmetry groups This work has an interdisciplinary appeal and will be a valuable read for researchers in mathematics mechanics physics engineering medicine and finance

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