

Volker Scheidemann

Introduction to Complex Analysis in Several Variables

Second Edition

Analysis Of Several Complex Variables

Roman Wölfel



Analysis Of Several Complex Variables Analysis Of Several Complex Variables:

Elementary Theory of Analytic Functions of One or Several Complex Variables Henri Cartan, 2013-04-22 Basic treatment includes existence theorem for solutions of differential systems where data is analytic holomorphic functions Cauchy's integral Taylor and Laurent expansions more Exercises 1973 edition *Several Complex Variables* Raghavan Narasimhan, 1971 Drawn from lectures given by Raghavan Narasimhan at the University of Geneva and the University of Chicago this book presents the part of the theory of several complex variables pertaining to unramified domains over $\mathbb{C}$ Topics discussed are Hartogs theory domains in holomorphy and automorphism of bounded domains **Complex Analysis of Several Variables** Yum-Tong Siu, 1984 Presents a collection of papers from the Symposium on Several Complex Variables held April 12-15 1983 in Madison Wisconsin This book contains a selection of the presented papers as well as some contributed papers *Harmonic Analysis of Functions of Several Complex Variables in the Classical Domains* Luogeng Hua, 1963-12-31 **Analysis of Several Complex Variables** Takeo Ōsawa, 2002 This monograph describes real analysis approaches to the study of functions of several complex variables and describes how these methods produce global existence theorems in the theory of functions The book brings particular attention to recent results with implications for the understanding of pseudoconvexity and plurisubharmonic functions Based on Oka's theorems and his schema for the grouping of problems the discussion integrates the theory of analytic functions of several variables and mathematical analysis Annotation copyrighted by Book News Inc Portland OR First Steps in Several Complex Variables Marek Jarnicki, Peter Pflug, 2008 This book provides a comprehensive introduction to the field of several complex variables in the setting of a very special but basic class of domains the so called Reinhardt domains In this way the reader may learn much about this area without encountering too many technical difficulties Chapter 1 describes the fundamental notions and the phenomenon of simultaneous holomorphic extension Chapter 2 presents a fairly complete discussion of biholomorphisms of bounded complete Reinhardt domains in the two dimensional case The third chapter gives a classification of Reinhardt domains of existence for the most important classes of holomorphic functions The last chapter deals with invariant functions and gives explicit calculations of many of them on certain Reinhardt domains Numerous exercises are included to help the readers with their understanding of the material Further results and open problems are added which may be useful as seminar topics The primary aim of this book is to introduce students or non experts to some of the main research areas in several complex variables The book provides a friendly invitation to this field as the only prerequisite is a basic knowledge of analysis

Function Theory of Several Complex Variables Steven George Krantz, 2001 Emphasizing integral formulas the geometric theory of pseudoconvexity estimates partial differential equations approximation theory inner functions invariant metrics and mapping theory this title is intended for the student with a background in real and complex variable theory harmonic analysis and differential equations Analysis of Several Complex Variables Takeo Ōsawa, 2002 One of the approaches to the study

of functions of several complex variables is to use methods originating in real analysis In this concise book the author gives a lucid presentation of how these methods produce a variety of global existence theorems in the theory of functions based on the characterization of holomorphic functions as weak solutions of the Cauchy Riemann equations Emphasis is on recent results including an L^2 extension theorem for holomorphic functions that have brought a deeper understanding of pseudoconvexity and plurisubharmonic functions Based on Oka's theorems and

Function Theory in Several Complex Variables Toshio Nishino, 2001 Kiyoshi Oka at the beginning of his research regarded the collection of problems which he encountered in the study of domains of holomorphy as large mountains which separate today and tomorrow Thus he believed that there could be no essential progress in analysis without climbing over these mountains this book is a worthwhile initial step for the reader in order to understand the mathematical world which was created by Kiyoshi Oka from the Preface This book explains results in the theory of functions of several complex variables which were mostly established from the late nineteenth century through to the middle of the twentieth century In the work the author introduces the mathematical world created by his advisor Kiyoshi Oka In this volume Oka's work is divided into two parts The first is the study of analytic functions in univalent domains in $\mathbb{C}^n$ Here Oka proved that three concepts are equivalent domains of holomorphy holomorphically convex domains and pseudoconvex domains and moreover that the Poincaré problem the Cousin problems and the Runge problem when stated properly can be solved in domains of holomorphy satisfying the appropriate conditions The second part of Oka's work established a method for the study of analytic functions defined in a ramified domain over $\mathbb{C}^n$ in which the branch points are considered as interior points of the domain Here analytic functions in an analytic space are treated which is a slight generalization of a ramified domain over $\mathbb{C}^n$ In writing the book the author's goal was to bring to readers a real understanding of Oka's original papers This volume is an English translation of the original Japanese edition published by the University of Tokyo Press Japan It would make a suitable course text for advanced graduate level introductions to several complex variables

Analysis and Geometry in Several Complex Variables Gen Komatsu, Masatake Kuranishi, 1999-07-15 This volume consists of a collection of articles for the proceedings of the 40th Taniguchi Symposium Analysis and Geometry in Several Complex Variables held in Katata Japan on June 23-28 1997 Since the inhomogeneous Cauchy Riemann equation was introduced in the study of Complex Analysis of Several Variables there has been strong interaction between Complex Analysis and Real Analysis in particular the theory of Partial Differential Equations Problems in Complex Analysis stimulate the development of the PDE theory which subsequently can be applied to Complex Analysis This interaction involves Differential Geometry for instance via the CR structure modeled on the induced structure on the boundary of a complex manifold Such structures are naturally related to the PDE theory Differential Geometric formalisms are efficiently used in settling problems in Complex Analysis and the results enrich the theory of Differential Geometry This volume focuses on the most recent developments in this interaction including links with other

fields such as Algebraic Geometry and Theoretical Physics Written by participants in the Symposium this volume treats various aspects of CR geometry and the Bergman kernel projection together with other major subjects in modern Complex Analysis We hope that this volume will serve as a resource for all who are interested in the new trends in this area We would like to express our gratitude to the Taniguchi Foundation for generous financial support and hospitality We would also like to thank Professor Kiyosi Ito who coordinated the organization of the symposium

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