

Complex Analysis

Several Complex Variables and
Connections with PDE Theory
and Geometry

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Trends in Mathematics

Analysis Of Several Complex Variables

Takeo Ōsawa



Analysis Of Several Complex Variables:

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 *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 **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 *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 Harmonic Analysis of Functions of Several Complex Variables in the Classical Domains Luogeng Hua, 1963-12-31 *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 *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

Holomorphic Functions and Integral Representations in Several Complex Variables R. Michael

Range, 2013-03-09 The subject of this book is Complex Analysis in Several Variables This text begins at an elementary level with standard local results followed by a thorough discussion of the various fundamental concepts of complex convexity related to the remarkable extension properties of holomorphic functions in more than one variable It then continues with a comprehensive introduction to integral representations and concludes with complete proofs of substantial global results on domains of holomorphy and on strictly pseudoconvex domains in $\mathbb{C}^n$ including for example Carathéodory's famous Mapping Theorem The most important new feature of this book is the systematic inclusion of many of the developments of the last 20 years which centered around integral representations and estimates for the Cauchy Riemann equations In particular integral representations are the principal tool used to develop the global theory in contrast to many earlier books on the subject which involved methods from commutative algebra and sheaf theory and or partial differential equations I believe that this approach offers several advantages 1 it uses the several variable version of tools familiar to the analyst in one complex

variable and therefore helps to bridge the often perceived gap between complex analysis in one and in several variables 2 it leads quite directly to deep global results without introducing a lot of new machinery and 3 concrete integral representations lend themselves to estimations therefore opening the door to applications not accessible by the earlier methods

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