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Methods of the Theory of Functions of Many Complex Variables

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Methods Of The Theory Of Functions Of Several Complex Variables

H. Grauert, K. Fritzsche



Methods Of The Theory Of Functions Of Several Complex Variables:

Methods of the Theory of Functions of Several Complex Variables V. S. Vladimiroff, 1966-11-15 **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 Poincar 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 **Methods of the Theory of Functions of Many Complex Variables** Vasiliy Sergeyevich Vladimirov, Scripta Technica, 2007-01-01 This systematic exposition outlines the fundamentals of the theory of single sheeted domains of holomorphy It further illustrates applications to quantum field theory the theory of functions and differential equations with constant coefficients Students of quantum field theory will find this text of particular value The text begins with an introduction that defines the basic concepts and elementary propositions along with the more salient facts from the theory of functions of real variables and the theory of generalized functions Subsequent chapters address the theory of plurisubharmonic functions and pseudoconvex domains along with characteristics of domains of holomorphy These explorations are further examined in terms of four types of domains multiple circular tubular semitubular and Hartogs domains Surveys of integral representations focus on the Martinelli Bochner Bergman Weil and Bochner representations The final chapter is devoted to applications particularly those involved in field theory It employs the theory of generalized functions along with the theory of functions of several complex variables **Methods of the Theory of Functions of Many Complex Variables**, 1966 [Analytic Functions of Several Complex Variables](#) Robert C. Gunning, Hugo Rossi, 2022-08-25 The theory of analytic functions of several complex variables enjoyed a period of remarkable

development in the middle part of the twentieth century After initial successes by Poincaré and others in the late 19th and early 20th centuries the theory encountered obstacles that prevented it from growing quickly into an analogue of the theory for functions of one complex variable Beginning in the 1930s initially through the work of Oka then H Cartan and continuing with the work of Grauert Remmert and others new tools were introduced into the theory of several complex variables that resolved many of the open problems and fundamentally changed the landscape of the subject These tools included a central role for sheaf theory and increased uses of topology and algebra The book by Gunning and Rossi was the first of the modern era of the theory of several complex variables which is distinguished by the use of these methods The intention of Gunning and Rossi's book is to provide an extensive introduction to the Oka Cartan theory and some of its applications and to the general theory of analytic spaces Fundamental concepts and techniques are discussed as early as possible The first chapter covers material suitable for a one semester graduate course presenting many of the central problems and techniques often in special cases The later chapters give more detailed expositions of sheaf theory for analytic functions and the theory of complex analytic spaces Since its original publication this book has become a classic resource for the modern approach to functions of several complex variables and the theory of analytic spaces Further information about this book including updates can be found at the following URL www.ams.org/publications/authors/books/postpub/chel368 Methods of the

Theory of Functions of Many Complex Variables Richard Stanley Peters, 1966 **Theory of Functions on Complex**

Manifolds G. M. Henkin, J. Leiterer, 1984-12-31 No detailed description available for Theory of Functions on Complex

Manifolds **Theory of Functions on Complex Manifolds** HENKIN, LEITERER, 2013-11-21 **Methods of**

Approximation Theory in Complex Analysis and Mathematical Physics Andrei A. Gonchar, Edward B. Saff, 2008-01-03

The book incorporates research papers and surveys written by participants of an International Scientific Programme on Approximation Theory jointly supervised by Institute for Constructive Mathematics of University of South Florida at Tampa USA and the Euler International Mathematical Institute at St Petersburg Russia The aim of the Programme was to present new developments in Constructive Approximation Theory The topics of the papers are asymptotic behaviour of orthogonal polynomials rational approximation of classical functions quadrature formulas theory of n widths nonlinear approximation in Hardy algebras numerical results on best polynomial approximations wavelet analysis FROM THE CONTENTS E A

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Several Complex Variables H. Grauert, K. Fritzsche, 2012-12-06 The present book grew out of introductory lectures on the theory of functions of several variables Its intent is to make the reader familiar by the discussion of examples and special cases with the most important branches and methods of this theory among them e g the problems of holomorphic continuation the algebraic treatment of power series sheaf and cohomology theory and the real methods which stem from elliptic partial differential equations In the first chapter we begin with the definition of holomorphic functions of several variables their representation by the Cauchy integral and their power series expansion on Reinhardt domains It turns out that in contrast to the theory of a single variable for $n \geq 1$ with $G \subset \mathbb{C}^n$ and $G' \subset G$ such that each function holomorphic in G has a continuation on G' Domains G for which such a G' does not exist are called domains of holomorphy In Chapter 2 we give several characterizations of these domains of holomorphy theorem of Cartan Thullen Levi's problem We finally construct the holomorphic hull $H(G)$ for each domain G that is the largest not necessarily schlicht domain over $\mathbb{C}^n$ into which each function holomorphic on G can be continued

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