

# Several Complex Variables with Connections to Algebraic Geometry and Lie Groups

**Joseph L. Taylor**

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# Methods Of The Theory Of Functions Of Several Complex Variables

**Steven George Krantz**



## **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     Analytic Functions of Several Complex Variables Robert Clifford Gunning, Hugo Rossi, 2009 The theory of analytic functions of several complex variables enjoyed a period of remarkable development in the middle part of the twentieth century This title intends to provide an extensive introduction to the Oka Cartan theory and some of its applications and to the general theory of analytic spaces

**Methods of the Theory of Functions of Many Complex Variables** Vasilii Sergeevich 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

**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*, 1966

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

*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 2 there exist domains  $G \subset \mathbb{C}^n$  to the theory of a single variable for  $n \geq 1$  with  $G \subset \mathbb{C}^n$  and  $G \neq \mathbb{C}^n$  such that each function holomorphic in  $G$  has a continuation on  $\mathbb{C}^n$  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  $\hat{H}(G)$  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

Methods of the Theory of Functions of Many Complex Variables [by] Vasilii Sergeevich Vladimirov Vasilii Sergeevich Vladimirov, 1966

Introduction to the Theory of Analytic Functions of Several Complex Variables Boris A. Fuks, 1965

*Method of the Theory of Functions of Many Complex Variables* V. S. Vladimirov, 1966

**Theory of Analytic Functions of Several Complex Variables** Boris Abramovich Fuks, 1963

**Theory of Functions of a Complex Variable** Heinrich Burkhardt, 1913

Geometric and Potential-theoretical Methods in the Theory of Functions of Several Complex Variables Stefan Bergman, 1950

*Introduction to the Theory of Analytic Functions of Several Complex Variables* Boris Abramovich Fuks, 1980

**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

**Holomorphic Functions and Integral Representations in Several Complex Variables** R. Michael Range, 1998-06-26 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

**Functions of a Complex Variable** George F. Carrier, Max Krook, Carl E. Pearson, 2005-07-01 This book makes available to readers a comprehensive range of analytical techniques based upon complex variable theory

**Geometric Function Theory in Several Complex Variables** Junjirō Noguchi, Takushiro Ochiai, 1990 This is an expanded English language version of a book by the same authors that originally appeared in the Japanese The book serves two purposes The first is to provide a self contained and coherent account of recent developments in geometric function theory in several complex variables aimed at those who have already mastered the basics of complex function theory and the elementary theory of differential and complex manifolds The second goal is to present in a self contained way fundamental descriptions of the theory of positive currents plurisubharmonic functions and meromorphic mappings which are today indispensable in the analytic and geometric theories of complex functions of several variables The book should prove useful for researchers and graduate students alike

**Partial Differential Equations, Advanced Topics** Stefan Bergman, Brown University.

Graduate School, 1941 The Theory of Functions of a Complex Variable Alekseĭ Georgievich Sveshnikov, Andreĭ Nikolaevich Tikhonov, 1971

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