

Graduate Texts in Mathematics

**H. Grauert
K. Fritzsche**

**Several Complex
Variables**



**Springer-Verlag
New York Heidelberg Berlin**

Several Complex Variables By

Toshio Nishino



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Several Complex Variables with Connections to Algebraic Geometry and Lie Groups Joseph L. Taylor, 2002 This text presents an integrated development of core material from several complex variables and complex algebraic geometry leading to proofs of Serre's celebrated GAGA theorems relating the two subjects and including applications to the representation theory of complex semisimple Lie groups It includes a thorough treatment of the local theory using the tools of commutative algebra an extensive development of sheaf theory and the theory of coherent analytic and algebraic sheaves proofs of the main vanishing theorems for these categories of sheaves and a complete proof of the finite dimensionality of the cohomology of coherent sheaves on compact varieties The vanishing theorems have a wide variety of applications and these are covered in detail Of particular interest are the last three chapters which are devoted to applications of the preceding material to the study of the structure theory and representation theory of complex semisimple Lie groups Included are introductions to harmonic analysis the Peter Weyl theorem Lie theory and the structure of Lie algebras semisimple Lie algebras and their representations algebraic groups and the structure of complex semisimple Lie groups All of this culminates in Milicic's proof of the Borel-Weil-Bott theorem which makes extensive use of the material developed earlier in the text There are numerous examples and exercises in each chapter This modern treatment of a classic point of view would be an excellent text for a graduate course on several complex variables as well as a useful reference for the expert

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

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

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 $n > 1$ 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

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

Elementary Theory of Analytic Functions of One Or Several Complex Variables Henri Cartan, 1995-01-01 Basic treatment of the theory of analytic functions of a complex variable touching on analytic functions of several real or complex variables as well as the existence theorem for solutions of differential systems where data is analytic Also included is a theory of abstract complex manifolds of one complex dimension holomorphic functions Cauchy's integral more Exercises 1973 edition

Lectures on Several Complex Variables Paul M. Gauthier, 2014-11-07 This monograph provides a concise accessible snapshot of key topics in several complex variables including the Cauchy Integral Formula sequences of holomorphic functions plurisubharmonic functions the Dirichlet problem and meromorphic functions Based on a course given at Universit  de Montr al this brief introduction covers areas of contemporary importance that are not mentioned in most treatments of the subject such as modular forms which are essential for Wiles theorem and the unification of quantum theory and general relativity Also covered is the Riemann manifold of a function which generalizes the Riemann surface of a function of a single complex variable and is a topic that is well known in one complex variable but rarely treated in several variables Many details which are intentionally left out as well as many theorems are stated as problems providing students with carefully structured instructive exercises Prerequisites for use of this book are functions of one complex variable functions of several real variables and topology all at the undergraduate level Lectures on Several Complex Variables will be of interest to advanced undergraduate and beginning undergraduate students as well as mathematical researchers and professors

Geometric Function Theory in Several Complex Variables Junjir  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

Several Complex Variables, Part 1 Raymond O'Neil Wells, American Mathematical Society, 1977 Contains sections on Singularities of analytic spaces Function theory and real analysis Compact complex manifolds and Survey papers

Tasty Bits of Several Complex Variables Jiri Lebl, 2019-05-06 An introduction to

the field of Several Complex Variables A course for graduate students after one semester of standard complex analysis in one variable This book is a polished version of my course notes for Math 6283 Several Complex Variables given in Spring 2014 Spring 2016 and Spring 2019 semesters at Oklahoma State University See <https://www.jirka.org/scv> for more information

Several Complex Variables and Complex Manifolds I Mike Field, 1982-04 This self contained and relatively elementary introduction to functions of several complex variables and complex especially compact manifolds was first published in 1982 It was intended be a synthesis of those topics and a broad introduction to the field The work as a whole will be useful to professional mathematicians or mathematical physicists who wish to acquire a further knowledge of this area of mathematics Many exercises have been included and indeed they form an integral part of the text The prerequisites for understanding Part I would be met by any mathematics student with a first degree and together the two parts were designed to provide an introduction to the more advanced works in the subject

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

Recent Developments in Several Complex Variables John Erik Fornæss, 1981-08-21 A classic treatment of complex variables from the acclaimed Annals of Mathematics Studies series Princeton University Press is proud to have published the Annals of Mathematics Studies since 1940 One of the oldest and most respected series in science publishing it has included many of the most important and influential mathematical works of the twentieth century The series continues this tradition as Princeton University Press publishes the major works of the

twenty first century To mark the continued success of the series all books are available in paperback and as ebooks

Several Complex Variables and the Geometry of Real Hypersurfaces John P. D'Angelo, 2019-07-16 Several Complex Variables and the Geometry of Real Hypersurfaces covers a wide range of information from basic facts about holomorphic functions of several complex variables through deep results such as subelliptic estimates for the Neumann problem on pseudoconvex domains with a real analytic boundary The book focuses on describing the geometry of a real hypersurface in a complex vector space by understanding its relationship with ambient complex analytic varieties You will learn how to decide whether a real hypersurface contains complex varieties how closely such varieties can contact the hypersurface and why it is important The book concludes with two sets of problems routine problems and difficult problems many of which are unsolved Principal prerequisites for using this book include a thorough understanding of advanced calculus and standard knowledge of complex analysis in one variable Several Complex Variables and the Geometry of Real Hypersurfaces will be a useful text for advanced graduate students and professionals working in complex analysis

Entire Functions of Several Complex Variables Pierre Lelong, Lawrence Gruman, 2012-12-06 Entire functions of several complex variables constitute an important and original chapter in complex analysis The study is often motivated by certain applications to specific problems in other areas of mathematics partial differential equations via the Fourier Laplace transformation and convolution operators analytic number theory and problems of transcendence or approximation theory just to name a few What is important for these applications is to find solutions which satisfy certain growth conditions The specific problem defines inherently a growth scale and one seeks a solution of the problem which satisfies certain growth conditions on this scale and sometimes solutions of minimal asymptotic growth or optimal solutions in some sense For one complex variable the study of solutions with growth conditions forms the core of the classical theory of entire functions and historically the relationship between the number of zeros of an entire function $f(z)$ of one complex variable and the growth of $|f|$ or equivalently $\log |f|$ was the first example of a systematic study of growth conditions in a general setting Problems with growth conditions on the solutions demand much more precise information than existence theorems The correspondence between two scales of growth can be interpreted often as a correspondence between families of bounded sets in certain Frechet spaces However for applications it is of utmost importance to develop precise and explicit representations of the solutions

Several Complex Variables and Complex Manifolds Mike Field, 1982 Annotation This self contained and relatively elementary introduction to functions of several complex variables and complex especially compact manifolds is intended to be a synthesis of those topics and a broad introduction to the field Part I is suitable for advanced undergraduates and beginning postgraduates whilst Part II is written more for the graduate student The work as a whole will be useful to professional mathematicians or mathematical physicists who wish to acquire a working knowledge of this area of mathematics Many exercises have been included and indeed they form an integral part of the text The prerequisites for understanding Part I would be met by any mathematics student with a

first degree and together the two parts provide an introduction to the more advanced works in the subject **Several complex variables**. Gennadiĭ Markovich Khenkin, 1993 This volume of the Encyclopaedia contains three contributions in the field of complex analysis The topics treated are mean periodicity and convolution equations Yang Mills fields and the Radon Penrose transform and string theory The latter two have strong links with quantum field theory and the theory of general relativity In fact the mathematical results described in the book arose from the need of physicists to find a sound mathematical basis for their theories The authors present their material in the form of surveys which provide up to date accounts of current research The book will be immensely useful to graduate students and researchers in complex analysis differential geometry quantum field theory string theory and general relativity **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

Introduction to Complex Analysis in Several Variables Volker Scheidemann, 2005-12-27 This book provides a comprehensive introduction to complex analysis in several variables One major focus of the book is extension phenomena alien to the one dimensional theory Hartog's Kugelsatz theorem of Cartan Thullen Bochner's theorem The book primarily aims at students starting to work in the field of complex analysis in several variables and teachers who want to prepare a university lecture Therefore the book contains more than 50 examples and more than 100 supporting exercises Several Complex Variables Michel Hervé, 1987

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