

Several Complex Variables

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Several Complex Variables By

So-chin Chen, Mei-Chi Shaw



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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 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 *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 $n \geq 2$ there exist domains $G \subset \mathbb{C}^n$ 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 $H(G)$ 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 **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

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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 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 *An Introduction to Complex Analysis in Several Variables* L. Hormander, 1973-02-12 An Introduction to Complex Analysis in Several Variables **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 **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 *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

Several Complex Variables Hans Grauert,Klaus Fritzsche,1976 **Several Complex Variables** ,1989 **Partial Differential Equations in Several Complex Variables** So-chin Chen,Mei-Chi Shaw,2001 This book is intended as both an introductory text and a reference book for those interested in studying several complex variables in the context of partial differential equations

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

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

Functions of Several Complex Variables and Their Singularities Wolfgang Ebeling,2007 The book provides an introduction to the theory of functions of several complex variables and their singularities with special emphasis on topological aspects The topics include Riemann surfaces holomorphic functions of several variables classification and deformation of singularities fundamentals of differential topology and the topology of singularities The aim of the book is to guide the reader from the fundamentals to more advanced topics of recent research All the necessary prerequisites are specified and carefully explained The general theory is illustrated by various examples and applications

Several Complex Variables and the Geometry of Real Hypersurfaces John P. D'Angelo,1993-01-06 *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

Several Complex Variables Michel A. Hervé, 1987

Tasty Bits of Several Complex Variables Jiri Lebl, 2023-12-09 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 at Oklahoma State University Table of contents 1 Holomorphic functions in several variables 2 Convexity and pseudoconvexity 3 CR Geometry 4 The $\bar{\partial}$ problem 5 Integral kernels 6 Complex analytic varieties See <https://www.jirka.org/scv> for more information

One Complex Variable from the Several Variable Point of View Peter V. Doherty, 2025-04 Traditionally speaking those who study the function theory of one complex variable spend little or no time thinking about several complex variables Conversely experts in the function theory of several complex variables do not consider one complex variable One complex variable is the inspiration and testing ground for several complex variables and several complex variables is the natural generalization of one complex variable The authors thesis here is these two subject areas have much in common They can gain a lot by learning to communicate These two fields are logically connected and each can be used to explain and to put the other into context This is the purpose of this book The point of view and the methodology of the two subject areas are quite different One complex variable is an aspect of traditional hard analysis Several complex variables is more like algebraic geometry and differential equations with some differential geometry thrown in The authors intend to create a marriage of the function theory of one complex variable and the function theory of several complex variables leading to a new and productive dialogue between the two disciplines The hope is this book to foster and develop this miscegenation in a manner that leads to new collaborations and developments There is much fertile ground here and this book aims to breathe new life into it Provided by publisher

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