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# Several Complex Variables VI

Complex Manifolds







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# Several Comlex Variable Volume 7 Encyclopaedia Of Mathematical Sciences

**G.M. Khenkin** 

# **Several Comlex Variable Volume 7 Encyclopaedia Of Mathematical Sciences:**

Several Complex Variables VII H. Grauert, Thomas Peternell, R. Remmert, 2013-03-09 Of making many books there is no end and much study is a weariness of the flesh Eccl 12 12 1 In the beginning Riemann created the surfaces The periods of integrals of abelian differentials on a compact surface of genus 9 immediately attach a g dimensional complex torus to X If 9 2 the moduli space of X depends on 3g 3 complex parameters Thus problems in one complex variable lead from the very beginning to studies in several complex variables Complex tori and moduli spaces are complex manifolds i e Hausdorff spaces with local complex coordinates Z 1 Zn holomorphic functions are locally those functions which are holomorphic in these coordinates th In the second half of the 19 century classical algebraic geometry was born in Italy The objects are sets of common zeros of polynomials Such sets are of finite dimension but may have singularities forming a closed subset of lower dimension outside of the singular locus these zero sets are complex manifolds Several Complex Variables II G.M. Khenkin, A.G. Vitushkin, 2012-12-06 Plurisubharmonic functions playa major role in the theory of functions of several complex variables The extensiveness of plurisubharmonic functions the simplicity of their definition together with the richness of their properties and most importantly their close connection with holomorphic functions have assured plurisubharmonic functions a lasting place in multidimensional complex analysis Pluri subharmonic functions first made their appearance in the works of Hartogs at the beginning of the century They figure in an essential way for example in the proof of the famous theorem of Hartogs 1906 on joint holomorphicity Defined at first on the complex plane IC the class of subharmonic functions became thereafter one of the most fundamental tools in the investigation of analytic functions of one or several variables. The theory of subharmonic functions was developed and generalized in various directions subharmonic functions in Euclidean space IRn plurisubharmonic functions of the associated classical potential theory are sufficiently well exposed in the literature and so we introduce here only a few fundamental results which we require More detailed expositions can be found in the monographs of Privalov 1937 Brelot 1961 and Landkof 1966 See also Brelot 1972 where a history of the development of the theory of subharmonic functions is given

L2 Approaches in Several Complex Variables Takeo Ohsawa,2015-09-28 The purpose of this monograph is to present the current status of a rapidly developing part of several complex variables motivated by the applicability of effective results to algebraic geometry and differential geometry Highlighted are the new precise results on the L2 extension of holomorphic functions In Chapter 1 the classical questions of several complex variables motivating the development of this field are reviewed after necessary preparations from the basic notions of those variables and of complex manifolds such as holomorphic functions pseudoconvexity differential forms and cohomology In Chapter 2 the L2 method of solving the d bar equation is presented emphasizing its differential geometric aspect In Chapter 3 a refinement of the Oka Cartan theory is given by this method The L2 extension theorem with an optimal constant is included obtained recently by Z B ocki and by Q A

Guan and X Y Zhou separately In Chapter 4 various results on the Bergman kernel are presented including recent works of Maitani Yamaguchi Berndtsson and Guan Zhou Most of these results are obtained by the L2 method In the last chapter rather specific results are discussed on the existence and classification of certain holomorphic foliations and Levi flat hypersurfaces as their stables sets These are also applications of the L2 method obtained during these 15 years Complex Variables IV Semen G. Gindikin, Gennadij M. Khenkin, 2012-12-06 This volume of the EMS contains four survey articles on analytic spaces They are excellent introductions to each respective area Starting from basic principles in several complex variables each article stretches out to current trends in research Graduate students and researchers will find a useful addition in the extensive bibliography at the end of each article Several Complex Variables V G.M. Khenkin, 2012-12-06 In this part we present a survey of mean periodicity phenomena which arise in connection with classical questions in complex analysis partial differential equations and more generally convolution equations A common feature of the problem we shall consider is the fact that their solutions depend on tech niques and ideas from complex analysis One finds in this way a remarkable and fruitful interplay between mean periodicity and complex analysis This is exactly what this part will try to explore It is probably appropriate to stress the classical flavor of all of our treat ment Even though we shall frequently refer to recent results and the latest theories such as algebmic analysis or the theory of Bernstein Sato polyno mials it is important to observe that the roots of probably all the problems we discuss here are classical in spirit since that is the approach we use For instance most of Chap 2 is devoted to far reaching generalizations of a result dating back to Euler and it is soon discovered that the key tool for such gen eralizations was first introduced by Jacobi As the reader will soon discover similar arguments can be made for each of the subsequent chapters Before we give a complete description of our work on a chapter by chapter basis let us make a remark about the list of references It is guite hard maybe even impossible to provide a complete list of references on such a vast topic Algebraic Geometry II I.R. Shafarevich, 1995-12-21 This two part volume contains numerous examples and insights on various topics. The authors have taken pains to present the material rigorously and coherently This book will be immensely useful to mathematicians and graduate students working in algebraic geometry arithmetic algebraic geometry complex analysis and related fields Dynamical Systems VII V.I. Arnol'd, S.P. Novikov, 2013-12-14 A collection of five surveys on dynamical systems indispensable for graduate students and researchers in mathematics and theoretical physics Written in the modern language of differential geometry the book covers all the new differential geometric and Lie algebraic methods currently used in the theory of integrable systems

**Dynamical Systems VIII** V.I. Arnol'd,2013-03-09 In the first volume of this survey Arnol d et al 1988 hereafter cited as EMS 6 we acquainted the reader with the basic concepts and methods of the theory of singularities of smooth mappings and functions This theory has numerous applications in mathematics and physics here we begin describing these applications Nevertheless the present volume is essentially independent of the first one all of the concepts of singularity theory that we

use are introduced in the course of the presentation and references to EMS 6 are confined to the citation of technical results Although our main goal is the presentation of analready formulated theory the readerwill also come upon some comparatively recent results apparently unknown even to specialists We pointout some of these results 2 3 In the consideration of mappings from C into C in 3 6 of Chapter 1 we define the bifurcation diagram of such a mapping formulate a K n 1 theorem for the complements to the bifurcation diagrams of simple singularities give the definition of the Mond invariant N in the spirit of hunting for invariants and we draw the reader s attention to a method of constructing the image of a mapping from the corresponding function on a manifold with boundary In 4 6 of the same chapter we introduce the concept of a versal deformation of a function with a nonisolated singularity in the dass of functions whose critical sets are arbitrary complete intersections of fixed dimension Several Complex Variables III G.M. Khenkin, 2012-12-06 We consider the basic problems notions and facts in the theory of entire functions of several variables i e functions J z holomorphic in the entire n space 1 the zero set of an entire function is not discrete and therefore one has no analogue of a tool such as the canonical Weierstrass product which is fundamental in the case n 1 Second for n 1 there exist several different natural ways of exhausting the Algebraic Geometry IV A.N. Parshin, I.R. Shafarevich, 2012-12-06 The problems being solved by invariant theory are space far reaching generalizations and extensions of problems on the reduction to canonical form of various is almost the same thing projective geometry objects of linear algebra or what Invariant theory has a ISO year history which has seen alternating periods of growth and stagnation and changes in the formulation of problems methods of solution and fields of application In the last two decades invariant theory has experienced a period of growth stimulated by a previous development of the theory of algebraic groups and commutative algebra It is now viewed as a branch of the theory of algebraic transformation groups and under a broader interpretation can be identified with this theory We will freely use the theory of algebraic groups an exposition of which can be found for example in the first article of the present volume We will also assume the reader is familiar with the basic concepts and simplest theorems of commutative algebra and algebraic geometry when deeper results are needed we will cite them in the text or provide suitable references

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