Volker Scheidemann

Introduction to Complex Analysis in Several Variables

Second Edition

Complex Variables Springer

Klaus Fritzsche,Hans Grauert

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   Complex Variables Carlos A. Berenstein,Roger Gay,2012-12-06 Textbooks even excellent ones are a reflection of their times Form and content of books depend on what the students know already what they are expected to learn how the subject matter is regarded in relation to other divisions of mathematics and even how fashionable the subject matter is It is thus not surprising that we no longer use such masterpieces as Hurwitz and Courant s Funktionentheorie or Jordan s Cours d Analyse in our courses The last two decades have seen a significant change in the techniques used in the theory of functions of one complex variable The important role played by the inhomogeneous Cauchy Riemann equation in the current research has led to the reunification at least in their spirit of complex analysis in one and in several variables We say reunification since we think that Weierstrass Poincare and others in contrast to many of our students did not consider them to be entirely separate subjects Indeed not only complex analysis in several variables but also number theory harmonic analysis and other branches of mathematics both pure and applied have required a reconsidera tion of analytic continuation ordinary differential equations in the complex domain asymptotic analysis iteration of holomorphic functions and many other subjects from the classic theory of functions of one complex variable This ongoing reconsideration led us to think that a textbook incorporating some of these new perspectives and techniques had to be written   Several Complex Variables H. Grauert,K. Fritzsche,2012-12-06 The present book grew out of introductory lectures on the theory offunctions 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 l ontrast 2 there exist domains G G c en to the theory of a single variable for n with G c G and G 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 en into which each function holomorphic on G can be continued   **Several Complex Variables** Hans Grauert,1976   Holomorphic Functions and Integral Representations in Several Complex Variables R. Michael Range,2013-03-09 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 inC including

for example C Fefferman 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 particu lar 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 differ ential 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 com plex 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   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 Joseph Bak,Donald J. Newman,2010-08-02 This unusual and lively textbook offers a clear and intuitive approach to the classical and beautiful theory of complex variables With very little dependence on advanced concepts from several variable calculus and topology the text focuses on the authentic complex variable ideas and techniques Accessible to students at their early stages of mathematical study this full first year course in complex analysis offers new and interesting motivations for classical results and introduces related topics stressing motivation and technique Numerous illustrations examples and now 300 exercises enrich the text Students who master this textbook will emerge with an excellent grounding in complex analysis and a solid understanding of its wide applicability   Complex Analysis and Differential Equations Luis Barreira,Claudia Valls,2012-04-18 This text provides an accessible self contained and rigorous introduction to complex analysis and differential equations Topics covered include holomorphic functions Fourier series ordinary and partial differential equations The text is divided into two parts part one focuses on complex analysis and part two on differential equations Each part can be read independently so in essence this text offers two books in one In the second part of the book some emphasis is given to the application of complex analysis to differential equations Half of the book consists of approximately 200 worked out problems carefully prepared for each part of theory plus 200 exercises of variable levels of difficulty Tailored to any course giving the first introduction to complex analysis or differential equations this text assumes only a basic knowledge of linear algebra and differential and integral calculus Moreover the large number of examples

worked out problems and exercises makes this the ideal book for independent study   **Harmonic and Complex Analysis in Several Variables** Steven G. Krantz,2017-09-20 Authored by a ranking authority in harmonic analysis of several complex variables this book embodies a state of the art entr e at the intersection of two important fields of research complex analysis and harmonic analysis Written with the graduate student in mind it is assumed that the reader has familiarity with the basics of complex analysis of one and several complex variables as well as with real and functional analysis The monograph is largely self contained and develops the harmonic analysis of several complex variables from the first principles The text includes copious examples explanations an exhaustive bibliography for further reading and figures that illustrate the geometric nature of the subject Each chapter ends with an exercise set Additionally each chapter begins with a prologue introducing the reader to the subject matter that follows capsules presented in each section give perspective and a spirited launch to the segment preludes help put ideas into context Mathematicians and researchers in several applied disciplines will find the breadth and depth of the treatment of the subject highly useful   Complex Analysis John M. Howie,2012-12-06 Complex analysis is one of the most attractive of all the core topics in an undergraduate mathematics course Its importance to applications means that it can be studied both from a very pure perspective and a very applied perspective This book takes account of these varying needs and backgrounds and provides a self study text for students in mathematics science and engineering Beginning with a summary of what the student needs to know at the outset it covers all the topics likely to feature in a first course in the subject including complex numbers differentiation integration Cauchy s theorem and its consequences Laurent series and the residue theorem applications of contour integration conformal mappings and harmonic functions A brief final chapter explains the Riemann hypothesis the most celebrated of all the unsolved problems in mathematics and ends with a short descriptive account of iteration Julia sets and the Mandelbrot set Clear and careful explanations are backed up with worked examples and more than 100 exercises for which full solutions are provided
    Complex Analysis and Geometry Pierre Dolbeault,A. Iordan,G. Henkin,H. Skoda,J.-M. Trepreau,2012-12-06 This meeting has been motivated by two events the 85th birthday of Pierre Lelong and the end of the third year of the European network Complex analysis and analytic geometry from the programme Human Capital and Mobility For the first event Mathematicians from Poland Sweden United States and France whose work is particularly related to the one ofP Lelong have accepted to participate for the second the different teams of the Network sent lecturers to report on their most recent works These teams are from Grenoble Wuppertal Berlin Pisa and Paris VI in fact most of their results are also related to Lelong s work and a posteriori it is difficult to decide whether a talk is motivated by the first or by the second event We chose only plenary lectures usually of one hour except a small number given by young mathematicians which have been shorter A two hours problem session has been organized The Proceedings gather papers which are exact texts of the talks or are closely related to them The members from the Network and five other lecturers sent us papers the other lecturers published the

content of their talks in mathematical Journals All the presented texts have been submitted to referees independent of the organizing committee the texts of the problems have been approved by their authors   From Holomorphic Functions to Complex Manifolds Klaus Fritzsche,Hans Grauert,2012-12-06 The aim of this book is to give an understandable introduction to the the ory of complex manifolds With very few exceptions we give complete proofs Many examples and figures along with quite a few exercises are included Our intent is to familiarize the reader with the most important branches and methods in complex analysis of several variables and to do this as simply as possible Therefore the abstract concepts involved with sheaves coherence and higher dimensional cohomology are avoided Only elementary methods such as power series holomorphic vector bundles and one dimensional co cycles are used Nevertheless deep results can be proved for example the Remmert Stein theorem for analytic sets finiteness theorems for spaces of cross sections in holomorphic vector bundles and the solution of the Levi problem The first chapter deals with holomorphic functions defined in open sub sets of the space en Many of the well known properties of holomorphic functions of one variable such as the Cauchy integral formula or the maxi mum principle can be applied directly to obtain corresponding properties of holomorphic functions of several variables Furthermore certain properties of differentiable functions of several variables such as the implicit and inverse function theorems extend easily to holomorphic functions   *Analysis and Geometry in Several Complex Variables* Shiferaw Berhanu,Nordine Mir,Emil J. Straube,2017-01-17 This volume contains the proceedings of the workshop on Analysis and Geometry in Several Complex Variables held from January 4 8 2015 at Texas A M University at Qatar Doha Qatar This volume covers many topics of current interest in several complex variables CR geometry and the related area of overdetermined systems of complex vector fields as well as emerging trends in these areas Papers feature original research on diverse topics such as the rigidity of CR mappings normal forms in CR geometry the d bar Neumann operator asymptotic expansion of the Bergman kernel and hypoellipticity of complex vector fields Also included are two survey articles on complex Brunn Minkowski theory and the regularity of systems of complex vector fields and their associated Laplacians   *Complex Analysis* Jane P. Gilman,Irwin Kra,Rubi E. Rodriguez,2007-12-17 Organizing the basic material of complex analysis in a unique manner the authors of this versatile book aim is to present a precise and concise treatment of those parts of complex analysis that should be familiar to every research mathematician   **Concise Complex Analysis** Sheng Gong,2001-03-09 This is a concise textbook of complex analysis for undergraduate and graduate students It has been written from the viewpoint of modern mathematics the equation differential geometry Lie groups etc It contains all the traditional material on complex analysis but many statements and proofs of classical theorems in complex analysis have been made simpler shorter and more elegant due to modern mathematical ideas and methods For example the Mittag Leffler theorem is proved by the equation the Picard theorem is proved using the methods of differential geometry and so on   **Complex Analysis and Geometry** Filippo Bracci,Jisoo Byun,Hervé Gaussier,Kengo Hirachi,Kang-Tae Kim,Nikolay Shcherbina,2016-10-23 This

volume includes 28 chapters by authors who are leading researchers of the world describing many of the up to date aspects in the field of several complex variables SCV These contributions are based upon their presentations at the 10th Korean Conference on Several Complex Variables KSCV10 held as a satellite conference to the International Congress of Mathematicians ICM 2014 in Seoul Korea SCV has been the term for multidimensional complex analysis one of the central research areas in mathematics Studies over time have revealed a variety of rich intriguing new knowledge in complex analysis and geometry of analytic spaces and holomorphic functions which were hidden in the case of complex dimension one These new theories have significant intersections with algebraic geometry differential geometry partial differential equations dynamics functional analysis and operator theory and sheaves and cohomology as well as the traditional analysis of holomorphic functions in all dimensions This book is suitable for a broad audience of mathematicians at and above the beginning graduate student level Many chapters pose open ended problems for further research and one in particular is devoted to problems for future investigations **Complex Analysis** Teodor Bulboacă,Santosh B. Joshi,Pranay Goswami,2019-07-08 This book is an in depth and modern presentation of important classical results in complex analysis and is suitable for a first course on the topic as taught by the authors at several universities The level of difficulty of the material increases gradually from chapter to chapter and each chapter contains many exercises with solutions and applications of the results with the particular goal of showcasing a variety of solution techniques **Complex Analysis with Applications** Nakhlé H. Asmar,Loukas Grafakos,2018-10-12 This textbook is intended for a one semester course in complex analysis for upper level undergraduates in mathematics Applications primary motivations for this text are presented hand in hand with theory enabling this text to serve well in courses for students in engineering or applied sciences The overall aim in designing this text is to accommodate students of different mathematical backgrounds and to achieve a balance between presentations of rigorous mathematical proofs and applications The text is adapted to enable maximum flexibility to instructors and to students who may also choose to progress through the material outside of coursework Detailed examples may be covered in one course giving the instructor the option to choose those that are best suited for discussion Examples showcase a variety of problems with completely worked out solutions assisting students in working through the exercises The numerous exercises vary in difficulty from simple applications of formulas to more advanced project type problems Detailed hints accompany the more challenging problems Multi part exercises may be assigned to individual students to groups as projects or serve as further illustrations for the instructor Widely used graphics clarify both concrete and abstract concepts helping students visualize the proofs of many results Freely accessible solutions to every other odd exercise are posted to the book s Springer website Additional solutions for instructors use may be obtained by contacting the authors directly Several Complex Variables V G. M. Khenkin,1993 This volume of the Encyclopaedia contains three contributions in the field of complex analysis The topics treated are mean periodicity and convolutionequations Yang Mills fields and the Radon Penrose transform

and stringtheory The latter two have strong links with quantum field theory and the theory of general relativity In fact the mathematical results described inthe book arose from the need of physicists to find a sound mathematical basis for their theories The authors present their material in the formof 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 theoryand general relativity   **Foundations of Mathematical Physics** Chirag Verma,2025-02-20 Foundations of Mathematical Physics is a compelling introduction for undergraduates venturing into the intricate relationship between mathematics and physics We navigate the core principles that sculpt the universe from the quantum to the cosmic scale making this book an essential companion for students unraveling the physical world s mysteries through mathematical lenses Structured to bridge theoretical concepts with practical applications we meticulously unfold the marvels of mathematical physics ensuring each topic is approachable without sacrificing depth This book offers a unique blend of theory worked examples and problem sets that challenge and engage students facilitating deep comprehension We stand out by demystifying complex ideas making this an invaluable resource for students with varied proficiency in mathematics or physics Whether you aim to grasp the fundamentals of quantum mechanics delve into special relativity s elegance or understand general relativity s geometric beauty this book paves the path for a profound understanding of the universe through mathematical frameworks Embark on this intellectual journey to discover how mathematical physics illuminates the universe s workings in an accessible and inspiring way   **Use of Mathematical Literature** A.R. Dorling,2014-05-20 Use of Mathematical Literature discusses the bibliographic concerns of mathematical literature The book is comprised of 14 chapters that cover characteristics of mathematical literature and provide reviews of some of the major literature in various mathematical fields The text first discusses the role of the literature in mathematics and then proceeds to tackling major organizations journals and reference materials Next the book provides critical accounts of the major literature in various mathematical fields such as combinatorics topology and mathematical programming The book will be of great use to students practitioners and researchers of mathematics Other profession handling math literature such as teachers librarians and translators will also find this book invaluable

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