Steven G. Krantz

Harmonic and Complex Analysis in Several Variables

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Joseph Bak,Donald J. Newman

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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   **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   <u>Holomorphic Functions and Integral Representations in Several Complex Variables</u> 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   *A Course in Complex Analysis* Wolfgang Fischer,Ingo Lieb,2011-10-21 This carefully written textbook is an introduction to the beautiful concepts and results of complex analysis It is intended for international bachelor and master programmes in Germany and throughout Europe in the Anglo American system of university education the content corresponds to a beginning graduate course The book presents the fundamental results and methods of complex analysis and applies them to a study of elementary and non elementary functions elliptic functions Gamma and Zeta function including a proof of the prime number theorem and a new feature in this context to exhibiting basic facts in the theory of several complex variables Part of the book is a translation of the authors German text Einf hrung in die komplexe Analysis some material was added from the by now almost classical text Funktionentheorie written by the authors and a few paragraphs were newly written for special use in a master s programme   **Complex Analysis** Rubí E. Rodríguez,Irwin Kra,Jane P. Gilman,2012-11-28 This book is intended for a graduate course in complex analysis where the main focus is the theory of complex valued functions of a single complex variable This theory is a prerequisite for the study of many areas of mathematics including the theory of several finitely and infinitely many complex variables hyperbolic geometry two and three manifolds and number theory Complex analysis has connections and applications to many other subjects in mathematics and to other sciences Thus this material will also be of interest to computer scientists physicists and engineers The book covers most if not all of the material contained in Lipman Bers s courses on first year complex analysis In addition topics of current

interest such as zeros of holomorphic functions and the connection between hyperbolic geometry and complex analysis are explored In addition to many new exercises this second edition introduces a variety of new and interesting topics New features include a section on Bers s theorem on isomorphisms between rings of holomorphic functions on plane domains necessary and sufficient conditions for the existence of a bounded analytic function on the disc with prescribed zeros sections on subharmonic functions and Perron s principle and a section on the ring of holomorphic functions on a plane domain There are three new appendices the first is a contribution by Ranjan Roy on the history of complex analysis the second contains background material on exterior differential calculus and the third appendix includes an alternate approach to the Cauchy theory   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   *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

Twenty-One Lectures on Complex Analysis Alexander Isaev,2017-11-29 At its core this concise textbook presents

standard material for a first course in complex analysis at the advanced undergraduate level This distinctive text will prove most rewarding for students who have a genuine passion for mathematics as well as certain mathematical maturity Primarily aimed at undergraduates with working knowledge of real analysis and metric spaces this book can also be used to instruct a graduate course The text uses a conversational style with topics purposefully apportioned into 21 lectures providing a suitable format for either independent study or lecture based teaching Instructors are invited to rearrange the order of topics according to their own vision A clear and rigorous exposition is supported by engaging examples and exercises unique to each lecture a large number of exercises contain useful calculation problems Hints are given for a selection of the more difficult exercises This text furnishes the reader with a means of learning complex analysis as well as a subtle introduction to careful mathematical reasoning To guarantee a student s progression more advanced topics are spread out over several lectures This text is based on a one semester 12 week undergraduate course in complex analysis that the author has taught at the Australian National University for over twenty years Most of the principal facts are deduced from Cauchy s Independence of Homotopy Theorem allowing us to obtain a clean derivation of Cauchy s Integral Theorem and Cauchy s Integral Formula Setting the tone for the entire book the material begins with a proof of the Fundamental Theorem of Algebra to demonstrate the power of complex numbers and concludes with a proof of another major milestone the Riemann Mapping Theorem which is rarely part of a one semester undergraduate course   Complex Analysis and Differential Equations Luis Barreira,Claudia Valls,2012-04-23 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   **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 quite hard maybe even impossible to provide a complete list of references on such a vast topic **Holomorphic Functions and Integral Representations in Several Complex Variables** Rolf Michael Range,1998 *Complex Analysis* Daniel H. Luecking,Lee A. Rubel,1984 The main idea of this book is to present a good portion of the standard material on functions of a complex variable as well as some new material from the point of view of functional analysis The main object of study is the algebra H G of all holomorphic functions on the open set G with the topology on H G of uniform convergence on compact subsets of G From this point of vie the main theorem of the theory is Theorem 9 5 which concretely identifies the dual of H G with the space of germs of holomorphic functions on the complement of G From this result for example Runge s approximation theorem and the global Cauchy integral theorem follow in a few short steps Other consequences of this duality theorem are the Germay interpolation theorem and the Mittag Leffler Theorem The approach via duality is entirely consistent with Cauchy s approach to complex variables since curvilinear integrals are typical examples of linear functionals The prerequisite for the book is a one semester course in com plex variables at the undergraduate graduate level so that the elements of the local theory are supposed known In particular the Cauchy Theorem for the square and the circle are assumed but not the global Cauchy Theorem in any of its forms The second author has three times taught a graduate course based on this material at the University of Illinois with good results *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 Several Complex Variables and Banach Algebras Herbert Alexander,John Wermer,2014-01-15 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 **Complex Analysis 2** Eberhard Freitag,2011-06-29 The book contains a complete self contained introduction to highlights of classical complex analysis New proofs and some new results are included All needed notions are developed within the book with the exception of some basic facts which can be found in the rst volume There is no comparable treatment in the literature **Complex Analysis** Serge Lang,2013-06-29 The present book is meant as a text for a course on complex analysis at the advanced undergraduate level or first year graduate level Somewhat more material has been included than can be covered at leisure in one term to give opportunities for the instructor to exercise his taste and lead the course in whatever direction strikes his fancy at the time A large number of routine exercises are included for the more standard portions and a few harder exercises of striking theoretical interest are also included but may be omitted in courses addressed to less advanced students In some sense I think the classical German prewar texts were the best Hurwitz Courant Knopp Bieberbach etc and I would recom mend to anyone to look through them More recent texts have empha sized connections with real analysis which is important but at the cost of exhibiting succinctly and clearly what is peculiar about complex anal ysis the power series expansion the uniqueness of analytic continuation and the calculus of residues The systematic elementary development of formal and convergent power series was standard fare in the German texts but only Cartan in the more recent books includes this material which I think is quite essential e g for differential equations I have written a short text exhibiting these features making it applicable to a wide variety of tastes The book essentially decomposes into two parts **Complex Analysis and Geometry** Filippo Bracci,Jisoo Byun,Hervé Gaussier,Kengo Hirachi,Kang-Tae Kim,Nikolay Shcherbina,2015-08-05 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

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