

Function Theory of One Complex Variable

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Robert E. Greene
Steven G. Krantz

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Function Theory of One Complex Variable Robert Everist Greene, Steven George Krantz, 2006 Complex analysis is one of the most central subjects in mathematics. It is compelling and rich in its own right, but it is also remarkably useful in a wide variety of other mathematical subjects, both pure and applied. This book is different from others in that it treats complex variables as a direct development from multivariable real calculus. As each new idea is introduced, it is related to the corresponding idea from real analysis and calculus. The text is rich with examples and exercises that illustrate this point. The authors have systematically separated the analysis from the topology, as can be seen in their proof of the Cauchy theorem. The book concludes with several chapters on special topics, including full treatments of special functions, the prime number theorem, and the Bergman kernel. The authors also treat H_p spaces and Painlevé's theorem on smoothness to the boundary for conformal maps. This book is a text for a first-year graduate course in complex analysis. It is an engaging and modern introduction to the subject, reflecting the authors' expertise both as mathematicians and as expositors.

Complex Variables Steven G. Krantz, 2007-09-19 From the algebraic properties of a complete number field to the analytic properties imposed by the Cauchy integral formula to the geometric qualities originating from conformality, *Complex Variables: A Physical Approach with Applications and MATLAB* explores all facets of this subject with particular emphasis on using theory in practice. The first five chapters encompass the core material of the book. These chapters cover fundamental concepts: holomorphic and harmonic functions, Cauchy theory and its applications, and isolated singularities. Subsequent chapters discuss the argument principle, geometric theory, and conformal mapping, followed by a more advanced discussion of harmonic functions. The author also presents a detailed glimpse of how complex variables are used in the real world, with chapters on Fourier and Laplace transforms, as well as partial differential equations and boundary value problems. The final chapter explores computer tools, including Mathematica, Maple™, and MATLAB, that can be employed to study complex variables. Each chapter contains physical applications drawing from the areas of physics and engineering. Offering new directions for further learning, this text provides modern students with a powerful toolkit for future work in the mathematical sciences.

Student Solutions Manual to Accompany Complex Variables and Applications James Ward Brown, Ruel Vance Churchill, 2003-03

Functions of One Complex Variable J.B. Conway, 2012-12-06 This book is intended as a textbook for a first course in the theory of functions of one complex variable for students who are mathematically mature enough to understand and execute ϵ - δ arguments. The actual prerequisites for reading this book are quite minimal, not much more than a stiff course in basic calculus and a few facts about partial derivatives. The topics from advanced calculus that are used, e.g., Leibniz's rule for differentiating under the integral sign, are proved in detail. *Complex Variables* is a subject which has something for all mathematicians. In addition to having applications to other parts of analysis, it can rightly claim to be an ancestor of many areas of mathematics, e.g., homotopy theory, manifolds. This view of Complex Analysis as an Introduction to Mathematics has influenced the writing and selection of subject matter for this book. The other guiding principle followed is that all definitions, theorems, etc.

Handbook of Complex Variables Steven G. Krantz, 2012-12-06 This book is written to be a convenient reference for the working scientist student or engineer who needs to know and use basic concepts in complex analysis It is not a book of mathematical theory It is instead a book of mathematical practice All the basic ideas of complex analysis as well as many typical applications are treated Since we are not developing theory and proofs we have not been obliged to conform to a strict logical ordering of topics Instead topics have been organized for ease of reference so that cognate topics appear in one place Required background for reading the text is minimal a good grounding in real variable calculus will suffice However the reader who gets maximum utility from the book will be that reader who has had a course in complex analysis at some time in his life This book is a handy compendium of all basic facts about complex variable theory But it is not a textbook and a person would be hard put to endeavor to learn the subject by reading this book

Complex Analysis Elias M. Stein, Rami Shakarchi, 2010-04-22 With this second volume we enter the intriguing world of complex analysis From the first theorems on the elegance and sweep of the results is evident The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex From there one proceeds to the main properties of holomorphic functions whose proofs are generally short and quite illuminating the Cauchy theorems residues analytic continuation the argument principle With this background the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics the Fourier transform treated by contour integration the zeta function and the prime number theorem and an introduction to elliptic functions culminating in their application to combinatorics and number theory Thoroughly developing a subject with many ramifications while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis *Complex Analysis* will be welcomed by students of mathematics physics engineering and other sciences The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them Numerous examples and applications throughout its four planned volumes of which *Complex Analysis* is the second highlight the far reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in depth considerations of complex analysis measure and integration theory and Hilbert spaces and finally further topics such as functional analysis distributions and elements of probability theory

Entire Functions of Several Complex Variables Pierre Lelong, Lawrence Gruman, 1986-03 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

Functions of a Complex Variable George F. Carrier, Max Krook, Carl E. Pearson, 2005-01-01 Functions of a complex variable are used to solve applications in various branches of mathematics science and engineering Functions of a Complex Variable Theory and Technique is a book in a special category of influential classics because it is based on the authors extensive experience in modeling complicated situations and providing analytic solutions The book makes available to readers a comprehensive range of these analytical techniques based upon complex variable theory Advanced topics covered include asymptotics transforms the Wiener Hopf method and dual and singular integral equations The authors provide many exercises incorporating them into the body of the text Audience intended for applied mathematicians scientists engineers and senior or graduate level students who have advanced knowledge in calculus and are interested in such subjects as complex variable theory function theory mathematical methods advanced engineering mathematics and mathematical physics

The Complex Variables Problem Solver Emil G. Milewski, 1987 For student in mathematics engineering and physics Includes comprehensive coverage of complex numbers set theory mapping functions Cauchy Riemann conditions power series Taylor series Green s theorem Laurent expansions singularities residues transformations and numerous scientific applications

Complex Variables Norman Levinson, 1971

The Geometry of Complex Domains Robert E. Greene, Kang-Tae Kim, Steven G. Krantz, 2011-05-18 This work examines a rich tapestry of themes and concepts and provides a comprehensive treatment of an important area of mathematics while simultaneously covering a broader area of the geometry of domains in complex space At once authoritative and accessible this text touches upon many important parts of modern mathematics complex geometry equivalent embeddings Bergman and Kahler geometry curvatures differential invariants boundary asymptotics of geometries group actions and moduli spaces The Geometry of Complex Domains can serve as a coming of age book for a graduate student who has completed at least one semester or more of complex analysis and will be most welcomed by analysts and geometers engaged in current research

Complex Made Simple David C. Ullrich, 2008 Presents the Dirichlet problem for harmonic functions twice once using the Poisson integral for the unit disk and again in an informal section on Brownian motion where the reader can understand intuitively how the Dirichlet problem works for general domains This book is suitable for a first year course in complex analysis

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

Complex Variables A. K. Kapoor, 2011 This textbook introduces the theory of complex variables at undergraduate level A good collection of problems is provided in the second part of the book The book is written in a user friendly style that presents important fundamentals a beginner needs to master the technical details of the subject Similarly teachers can also adopt the text for a course on complex variables and for mining problems The organization of problems into focused sets is an important feature of the book

Complex Variables Problem Solver Emil G. Milewski, 1998-01-01 For student in mathematics engineering and physics Includes comprehensive coverage of complex numbers set theory mapping functions Cauchy Riemann conditions power series Taylor series Green's theorem Laurent expansions singularities residues transformations and numerous scientific applications

Complex Variables M. Ya Antimirov, A. A. Kolyshkin, Rémi Vaillancourt, 1998 *Complex Variables* is an extended course in complex analysis and its applications for engineering students and for those who use complex analysis in their work In addition to classical results it includes results recently obtained by the authors Antimirov Kolyshkin and Vaillancourt have combined a rigorous presentation with clarity and many solved examples The text introduces the theory of functions of one complex variable and presents an evaluation of many new integration formulae and the summation of new infinite series by the calculus of residue The book also includes the Fatou Julia theory for meromorphic functions for finding selective roots of some transcendental equations as found in the applications The exercises provided in the text are elementary and aim at the understanding of the theory of analytic functions Answers to odd numbered exercises are in the back of the book answers to even numbered exercises are provided in an accompanying instructor's manual Key Features Uses direct mathematical language avoiding unnecessary abstract style Contains planes of domain and image of mappings which are always clearly specified and well illustrated with figures Provides several new integration and summation formulas which may eventually find their way into symbolic softwares Includes a large collection of exercises Expands entire functions in infinite products into simpler forms than those found in many textbooks Presents fresh information on the dynamics of meromorphic functions to solve transcendental equation found in the applications

Complex Variables Robert B. Ash, 1971

Templates for the Solution of Linear Systems Richard Barrett, Michael W. Berry, Tony F. Chan, James Demmel, June Donato, Jack Dongarra, Victor Eijkhout, Roldan Pozo, Charles Romine, Henk van der Vorst, 1994-01-01 In this book which focuses on the use of iterative methods for solving large sparse systems of linear equations templates are introduced to meet the needs of both the traditional user and the high performance specialist Templates a description of a general algorithm rather than the executable object or source code more commonly found in a conventional software library offer whatever degree of customization the user may desire Templates offer three distinct advantages they are general and reusable they are not language specific and they exploit the expertise of both the numerical analyst who creates a template reflecting in depth knowledge of a specific numerical technique and the computational scientist who then provides value added capability to the general template description customizing it for specific needs For each template that is presented the authors provide a mathematical description of the flow of algorithm discussion of convergence and stopping criteria to use in the iteration suggestions for applying a method to special matrix types advice for tuning the template tips on parallel implementations and hints as to when and why a method is useful

Complex Variables and Analytic Functions: An Illustrated Introduction Bengt Fornberg ,Cécile Piret,2019-12-23 At almost all academic institutions worldwide complex variables and analytic functions are utilized in courses on applied mathematics physics engineering and other related subjects For most students formulas alone do not provide a sufficient introduction to this widely taught material yet illustrations of functions are sparse in current books on the topic This is the first primary introductory textbook on complex variables and analytic functions to make extensive use of functional illustrations Aiming to reach undergraduate students entering the world of complex variables and analytic functions this book utilizes graphics to visually build on familiar cases and illustrate how these same functions extend beyond the real axis It covers several important topics that are omitted in nearly all recent texts including techniques for analytic continuation and discussions of elliptic functions and of Wiener Hopf methods It also presents current advances in research highlighting the subject s active and fascinating frontier The primary audience for this textbook is undergraduate students taking an introductory course on complex variables and analytic functions It is also geared toward graduate students taking a second semester course on these topics engineers and physicists who use complex variables in their work and students and researchers at any level who want a reference book on the subject

Solutions Manual to A Modern Theory of Integration Robert Gardner Bartle,2001 This solutions manual is geared toward instructors for use as a companion volume to the book *A Modern Theory of Integration* AMS Graduate Studies in Mathematics series Volume 32

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