CONCISE COMPLEX ANALYSIS

Sheng Geng I Youhong Gong

Concise Complex Analysis

I-Hsiung Lin

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Concise Complex Analysis (Revised Edition) Sheng Gong, Youhong Gong, 2007-04-26 A concise textbook on complex analysis for undergraduate and graduate students this book is written from the viewpoint of modern mathematics the Bar Partial equation differential geometry Lie groups all the traditional material on complex analysis is included Setting it apart from others the book makes many statements and proofs of classical theorems in complex analysis simpler shorter and more elegant for example the Mittag Leffer theorem is proved using the Bar Partial equation and the Picard theorem is proved Concise Complex Analysis Sheng Gong, 2001 using the methods of differential geometry Concise Complex Analysis Sheng Gong, Youhong Gong, 2007 This is a concise textbook of complex analysis for undergraduate and graduate students Written from the viewpoint of modern mathematics the d equation differential geometry Lie group etc it contains all the traditional material on complex analysis However many statement 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 Leffer theorem is proved by the d equation the Picard theorem is proved using the methods of differential geometry and so on **BOOK JACKET** Complex Analysis Murali Rao, Henrik Stetk∏r, 1991 This is a rigorous introduction to the theory of complex functions of one complex variable The authors have made an effort to present some of the deeper and more interesting results for example Picard's theorems Riemann mapping theorem Runge's theorem in the first few chapters However the very basic theory is nevertheless given a thorough treatment so that readers should never feel lost After the first five chapters the order may be adapted to suit the course Each chapter finishes with exercises *An Introduction to Complex Analysis* Ravi P. Agarwal, Kanishka Perera, Sandra Pinelas, 2011-07-01 This textbook introduces the subject of complex analysis to advanced undergraduate and graduate students in a clear and concise manner Key features of this textbook effectively organizes the subject into easily manageable sections in the form of 50 class tested lectures uses detailed examples to drive the presentation includes numerous exercise sets that encourage pursuing extensions of the material each with an Answers or Hints section covers an array of advanced topics which allow for flexibility in developing the subject beyond the basics provides a concise history of complex numbers An Introduction to Complex Analysis will be valuable to students in mathematics engineering and other applied sciences Prerequisites include a course in calculus Handbook of Complex Analysis Reiner Kuhnau, 2004-12-09 Geometric Function Theory is that part of Complex Analysis which covers the theory of conformal and quasiconformal mappings Beginning with the classical Riemann mapping theorem there is a lot of existence theorems for canonical conformal mappings On the other side there is an extensive theory of qualitative properties of conformal and quasiconformal mappings concerning mainly a prior estimates so called distortion theorems including the Bieberbach conjecture with the proof of the Branges Here a starting point was the classical Scharz lemma and then Koebe s distortion theorem There are several connections to mathematical physics because of the relations to potential theory in the

plane The Handbook of Geometric Function Theory contains also an article about constructive methods and further a Bibliography including applications eg to electroxtatic problems heat conduction potential flows in the plane A collection of independent survey articles in the field of GeometricFunction Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including many hints to applications in electrostatics heat conduction potential flows in the plane Complex Analysis Guantie Deng, 2024-12-20 The book comprises six chapters each meticulously structured to build a comprehensive understanding of complex analysis Chapter 1 covers the most fundamental concepts providing the essential groundwork that permeates the entire text Chapter 2 delves into normal families the Riemann mapping theorem and conformal mapping Chapter 3 focuses on the zeros of analytic functions while Chapter 4 explores the essential properties of harmonic and subharmonic functions Chapter 5 introduces H p spaces and the Fourier transform highlighting their interconnections The final chapter discusses uniform approximation by rational functions Emphasizing foundational theories modern methods and key ideas in complex analysis this book also presents some cutting edge research problems and recent advancements The topics are thoughtfully selected and the exposition is clear and rigorous This book is an excellent resource for graduate students and independent learners alike It features many new and concise proofs of classical theorems and offers numerous challenging exercises to deepen understanding Analysis and Applications Hemant Kumar Pathak, 2019-08-19 This book offers an essential textbook on complex analysis After introducing the theory of complex analysis it places special emphasis on the importance of Poincare theorem and Hartog s theorem in the function theory of several complex variables Further it lays the groundwork for future study in analysis linear algebra numerical analysis geometry number theory physics including hydrodynamics and thermodynamics and electrical engineering To benefit most from the book students should have some prior knowledge of complex numbers However the essential prerequisites are quite minimal and include basic calculus with some knowledge of partial derivatives definite integrals and topics in advanced calculus such as Leibniz s rule for differentiating under the integral sign and to some extent analysis of infinite series The book offers a valuable asset for undergraduate and graduate students of mathematics and engineering as well as students with no background in topological properties **Complex Analysis with Applications** Richard A. Silverman, 1984-01-01 The basics of what every scientist and engineer should know from complex numbers limits in the complex plane and complex functions to Cauchy's theory power series and applications of residues 1974 edition

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 quarantee 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 Fluid and Thermodynamics Kolumban Hutter, Yongqi Wang, 2016-06-10 This first volume discusses fluid mechanical concepts and their applications to ideal and viscous processes It describes the fundamental hydrostatics and hydrodynamics and includes an almanac of flow problems for ideal fluids The book presents numerous exact solutions of flows in simple configurations each of which is constructed and graphically supported It addresses ideal potential Newtonian and non Newtonian fluids Simple yet precise solutions to special flows are also constructed namely Blasius boundary layer flows matched asymptotics of the Navier Stokes equations global laws of steady and unsteady boundary layer flows and laminar and turbulent pipe flows Moreover the well established logarithmic velocity profile is criticised A Friendly Approach To Complex Analysis Amol Sasane, Sara Maad Sasane, 2013-12-24 The book constitutes a basic concise yet rigorous course in complex analysis for students who have studied calculus in one and several variables but have not previously been exposed to complex analysis. The textbook should be particularly useful and relevant for undergraduate students in joint programmes with mathematics as well as engineering students The aim of the book is to cover the bare bones of the subject with minimal prerequisites The core content of the book is the three main pillars of complex analysis the Cauchy Riemann equations the Cauchy Integral Theorem and Taylor and Laurent series expansions Each section contains several problems which are not purely drill exercises but are rather meant to reinforce the fundamental concepts Detailed solutions to all the exercises appear at the end of the book making the book ideal also for self study There are many figures illustrating the text Complex Analysis Shashank Tiwari, 2025-02-20 Complex Analysis Advanced Concepts delves into the intricate world of complex numbers and functions offering a thorough exploration of their properties and applications The book begins with a detailed examination of basic concepts covering arithmetic operations geometric interpretations and the fundamental theorem of algebra It then progresses to advanced topics such as complex functions differentiation integration and series One of the book s notable strengths lies in its clear

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