# CONCISE COMPLEX ANALYSIS

## Revised Edition

# Sheng Gong | Youhong Gong

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Ivan Francis Wilde

**Concise Complex Analysis:**

   **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 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    *Concise Complex Analysis (Revised Edition)* Sheng Gong,2007    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    **Complex Analysis** Murali Rao,Henrik Stetkær,1991    **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* Jerry R. Muir, Jr.,2015-05-26 A thorough introduction to the theory of complex functions emphasizing the beauty power and counterintuitive nature of the subject Written with a reader friendly approach Complex Analysis A Modern First Course in Function Theory features a self contained concise development of the fundamental principles of complex analysis After laying groundwork on complex numbers and the calculus and geometric mapping properties of functions of a complex variable the author uses power series as a unifying theme to define and study the many rich and occasionally surprising properties of analytic functions including the Cauchy theory and residue theorem The book concludes with a treatment of harmonic functions and an epilogue on the Riemann mapping theorem Thoroughly classroom tested at multiple universities Complex Analysis A Modern First Course in Function Theory features Plentiful exercises both computational and theoretical of varying levels of difficulty including several that could be used for student projects Numerous figures to illustrate geometric concepts and constructions used in proofs Remarks at the conclusion of each section that place the main concepts in context compare and contrast results with the calculus of real functions and provide historical notes Appendices on the basics of sets and functions and a handful of useful results from advanced calculus Appropriate for students majoring in pure or applied mathematics as well as physics or engineering Complex Analysis A Modern First Course in Function Theory is an ideal textbook for a one semester course in complex analysis for those with a strong foundation in multivariable calculus The logically complete book also serves as a key reference for mathematicians physicists and engineers and is an excellent source for anyone interested in independently learning or reviewing the beautiful subject of complex analysis     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 **Friendly Approach To Complex Analysis, A (Second Edition)** Amol Sasane,Sara Maad Sasane,2023-06-28 The book constitutes a basic concise yet rigorous first course in complex analysis for undergraduate students who have studied multivariable calculus and linear algebra The textbook should be particularly useful for students of joint programmes with mathematics as well as engineering students seeking rigour 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 Each section contains several problems which are not drill exercises but are meant to reinforce the fundamental concepts Detailed solutions to all the 243 exercises appear at the end of the book making the book ideal for self study There are many figures illustrating the text The second edition corrects errors from the first edition and includes 89 new exercises some of which cover auxiliary topics that were omitted in the first edition Two new appendices have been added one containing a detailed rigorous proof of the Cauchy Integral Theorem and another providing background in real analysis needed to make the book self contained **Introduction to Complex Analysis** Zeev Nehari,2013-06 **Complex Analysis** Lars Valerian Ahlfors,2021 The back up contains a draft of the title page copyright page toc and preface DO NOT INCLUDE THIS IN THE CIP RECORD **Complex Analysis** Guantie Deng, **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 **Introduction to Complex Analysis** Hilary A. Priestley,1985 Straightforward in concise this introductory volume treats the theory rigorously but uses a minimum of sophisticated machinery and assumes no prior

knowledge of topology Priestley presents the major theorems as early as possible so that those meeting complex analysis for the first time can appreciate the power and elegance of the subject by seeing applications of results both practical and theoretical A valuable resource for pure and applied mathematicians this book is also suitable for graduate students and as a reference for engineers **Complex 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 in One Variable** Zbigniew Błocki,2026-05-04 This textbook provides a concise introduction to complex analysis analytic functions and Riemann surfaces along with several more recent developments motivated by the theory of several complex variables The first two chapters present classical material the basic properties of analytic functions complex integration and residue calculus the Riemann Mapping Theorem and the theory of harmonic functions The theory of elliptic functions is introduced and used to prove Montel s theorem on the universal cover of the twice punctured plane This result becomes a key tool in the classical theory of complex dynamics developed in the book As another application of complex analysis the text includes selected results from analytic number theory in particular the prime number theorem and a reformulation of the Riemann Hypothesis in terms of the distribution of prime numbers Potential theory is introduced in the following chapter and later becomes the central tool for developing the theory of Riemann surfaces whose main result is the uniformization theorem The final chapter presents methods from the theory of several complex variables A key result here is H rmander s L2 estimate for the operator which is applied to solve the Beltrami equation The chapter also includes a quantitative version of Carleson s theorem characterizing domains with nontrivial Bergman spaces giving an optimal lower bound conjectured by Suita for the Bergman kernel in terms of logarithmic capacity Based on courses taught over many years the material in this book has been refined for decades and the presentation is intentionally succinct favoring the simplest available proofs This approach makes it possible to include material that would typically require two separate volumes Each chapter concludes with a collection of exercises ranging from standard problems to more advanced ones **Complex Analysis** Jane P. Gilman,Irwin Kra,Rubi E. Rodriguez,2010-02-12 The authors aim here is to present a precise and concise treatment of those parts of complex analysis that should be familiar to every research

mathematician They follow a path in the tradition of Ahlfors and Bers by dedicating the book to a very precise goal the statement and proof of the Fundamental Theorem for functions of one complex variable They discuss the many equivalent ways of understanding the concept of analyticity and offer a leisure exploration of interesting consequences and applications Readers should have had undergraduate courses in advanced calculus linear algebra and some abstract algebra No background in complex analysis is required    Lecture Notes on Complex Analysis Ivan Francis Wilde,2006 This book is based on lectures presented over many years to second and third year mathematics students in the Mathematics Departments at Bedford College London and King s College London as part of the BSc and MSci program Its aim is to provide a gentle yet rigorous first course on complex analysis Metric space aspects of the complex plane are discussed in detail making this text an excellent introduction to metric space theory The complex exponential and trigonometric functions are defined from first principles and great care is taken to derive their familiar properties In particular the appearance of in this context is carefully explained The central results of the subject such as Cauchy s Theorem and its immediate corollaries as well as the theory of singularities and the Residue Theorem are carefully treated while avoiding overly complicated generality Throughout the theory is illustrated by examples A number of relevant results from real analysis are collected complete with proofs in an appendix The approach in this book attempts to soften the impact for the student who may feel less than completely comfortable with the logical but often overly concise presentation of mathematical analysis elsewhere

  *Complex Analysis* Jane P. Gilman,Irwin Kra,Rubi Rodriguez,2008-11-01 The authors aim here is to present a precise and concise treatment of those parts of complex analysis that should be familiar to every research mathematician They follow a path in the tradition of Ahlfors and Bers by dedicating the book to a very precise goal the statement and proof of the Fundamental Theorem for functions of one complex variable They discuss the many equivalent ways of understanding the concept of analyticity and offer a leisure exploration of interesting consequences and applications Readers should have had undergraduate courses in advanced calculus linear algebra and some abstract algebra No background in complex analysis is required

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represented in the lower left corner of the graph where the temperature is at its lowest

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web describe the processes represented by typical heating and cooling curves and compute heat flows and enthalpy changes accompanying these processes explain the construction and use of a typical phase diagram

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web determine the final temperature and state of the ammonia once the system reaches equilibrium assuming that no heat is lost to the surroundings use the information below normal boiling point of nh 3 33 3 c Δh vap 23 4 kj mol specific heat nh 3 l 4 74 j g k specific heat nh 3 g 2 06 j g k

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web apr 3 2023   the experiment described above can be summarized in a graph called a heating curve figure below figure 11 16 1 11 16 1 in the heating curve of water the temperature is shown as heat is continually added changes of state occur during plateaus because the temperature is constant

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and faster as they absorb kinetic energy

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web once all of the material has solidified at the time indicated by point c the cooling will continue at a rate determined by the heat capacities of the two solids a and b the composition and of course the geometry of the experimental set up by measuring cooling curves for samples of varying composition one can map the entire phase

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web for water this temperature is 100 c because the boiling point for water is 100 c different substances have different melting points and boiling points but the shapes of their heating curves are very similar for example this is the heating curve for iron a metal that melts at 1538 c and boils at 2861 c cooling curves

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