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# Classical Complex Analysis



**Liang-Shin Hahn • Bernard Epstein**

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# Classical Complex Analysis

**Roman Wölfel**



## **Classical Complex Analysis:**

**Classical Complex Analysis** I-Hsiung Lin, 2011 Classical Complex Analysis provides an introduction to one of the remarkable branches of exact science with an emphasis on the geometric aspects of analytic functions This volume begins with a geometric description of what a complex number is followed by a detailed account of algebraic analytic and geometric properties of standard complex valued functions Geometric properties of analytic functions are then developed and described in detail and various applications of residues are included analytic continuation is also introduced Book Jacket *Classical Complex Analysis* Mario Gonzalez, 1991-09-24 Text on the theory of functions of one complex variable contains with many elaborations the subject of the courses and seminars offered by the author over a period of 40 years and should be considered a source from which a variety of courses can be drawn In addition to the basic topics in the cl *Classical Complex Analysis: A Geometric Approach (Volume 2)* I-hsiung Lin, 2010-09-09 Classical Complex Analysis available in two volumes provides a clear broad and solid introduction to one of the remarkable branches of exact science with an emphasis on the geometric aspects of analytic functions Volume 2 begins with analytic continuation The Riemann mapping theorem is proved and used in solving Dirichlet's problem for an open disk and hence a class of general domains via Perron's method Finally proof of the uniformization theorem of Riemann surfaces is given The book is rich in contents figures examples and exercises It is self contained and is designed for a variety of usages and motivations concerning advanced studies It can be used both as a textbook for undergraduate and graduate students and as a reference book in general **Classical Complex Analysis** Mario O. Gonzalez, 1992 **An Introduction to Classical Complex Analysis** R.B. Burckel, 2012-12-06 This book is an attempt to cover some of the salient features of classical one variable complex function theory The approach is analytic as opposed to geometric but the methods of all three of the principal schools those of Cauchy Riemann and Weierstrass are developed and exploited The book goes deeply into several topics e.g convergence theory and plane topology more than is customary in introductory texts and extensive chapter notes give the sources of the results trace lines of subsequent development make connections with other topics and offer suggestions for further reading These are keyed to a bibliography of over 1 300 books and papers for each of which volume and page numbers of a review in one of the major reviewing journals is cited These notes and bibliography should be of considerable value to the expert as well as to the novice For the latter there are many references to such thoroughly accessible journals as the American Mathematical Monthly and L'Enseignement Mathématique Moreover the actual prerequisites for reading the book are quite modest for example the exposition assumes no prior knowledge of manifold theory and continuity of the Riemann map on the boundary is treated without measure theory **An Introduction to Classical Complex Analysis**, 1979 *Classical Complex Analysis* Liong-shin Hahn, Bernard Epstein, 1996 Classic Complex Analysis is a text that has been developed over decades of teaching with an enthusiastic student reception The first half of the book focuses on the core material An early chapter on power

series gives the reader concrete examples of analytic functions and a review of calculus. Mobius transformations are presented with emphasis on the geometric aspect and the Cauchy theorem is covered in the classical manner. The remaining chapters provide an elegant and solid overview of special topics such as Entire and Meromorphic Functions, Analytic Continuation, Normal Families, Conformal Mapping, and Harmonic Functions.

*Classical Analysis in the Complex Plane* Robert B. Burckel, 2021-10-11. This authoritative text presents the classical theory of functions of a single complex variable in complete mathematical and historical detail. Requiring only minimal undergraduate level prerequisites, it covers the fundamental areas of the subject with depth, precision, and rigor. Standard and novel proofs are explored in unusual detail, and exercises, many with helpful hints, provide ample opportunities for practice and a deeper understanding of the material. In addition to the mathematical theory, the author also explores how key ideas in complex analysis have evolved over many centuries, allowing readers to acquire an extensive view of the subject's development. Historical notes are incorporated throughout, and a bibliography containing more than 2,000 entries provides an exhaustive list of both important and overlooked works. *Classical Analysis in the Complex Plane* will be a definitive reference for both graduate students and experienced mathematicians alike, as well as an exemplary resource for anyone doing scholarly work in complex analysis. The author's expansive knowledge of and passion for the material is evident on every page, as is his desire to impart a lasting appreciation for the subject. I can honestly say that Robert Burckel's book has profoundly influenced my view of the subject of complex analysis. It has given me a sense of the historical flow of ideas and has acquainted me with byways and ancillary results that I never would have encountered in the ordinary course of my work. The care exercised in each of his proofs is a model of clarity in mathematical writing. Anyone in the field should have this book on their bookshelves as a resource and an inspiration.

From the Foreword by Steven G. Krantz. [An introduction to classical complex analysis](#) Robert B. Burckel, 1979.

*An Introduction to Classical Complex Analysis* Werner Hildbert Greub, 1979. *Complex Analysis: Fundamentals of the Classical Theory of Functions* John Stalker, 1998. **An Introduction to Complex Analysis** Wolfgang Tutschke, Harkrishan L. Vasudeva, 2004-06-25. Like real analysis, complex analysis has generated methods indispensable to mathematics and its applications. Exploring the interactions between these two branches, this book uses the results of real analysis to lay the foundations of complex analysis and presents a unified structure of mathematical analysis as a whole. To set the groundwork.

[Classical Topics in Complex Function Theory](#) Reinhold Remmert, 2013-03-14. An ideal text for an advanced course in the theory of complex functions, this book leads readers to experience function theory personally and to participate in the work of the creative mathematician. The author includes numerous glimpses of the function theory of several complex variables, which illustrate how autonomous this discipline has become. In addition to standard topics, readers will find Eisenstein's proof of Euler's product formula for the sine function, Wielandt's uniqueness theorem for the gamma function, Stirling's formula, Issacs theorem, Bessel's proof that all domains in  $\mathbb{C}$  are domains of holomorphy, Wedderburn's lemma, and the ideal theory of rings of

holomorphic functions Estermann's proofs of the overconvergence theorem and Bloch's theorem a holomorphic imbedding of the unit disc in  $C^3$  and Gauss's expert opinion on Riemann's dissertation Remmert elegantly presents the material in short clear sections with compact proofs and historical comments interwoven throughout the text The abundance of examples exercises and historical remarks as well as the extensive bibliography combine to make an invaluable source for students and teachers alike

*Complex Analysis* Eberhard Freitag, Rolf Busam, 2009-04-28 All needed notions are developed within the book with the exception of fundamentals which are presented in introductory lectures no other knowledge is assumed Provides a more in depth introduction to the subject than other existing books in this area Over 400 exercises including hints for solutions are included

Complex Analysis Mario Gonzalez, 2018-03-09 A selection of some important topics in complex analysis intended as a sequel to the author's Classical complex analysis see preceding entry The five chapters are devoted to analytic continuation conformal mappings univalent functions and nonconformal mappings entire function meromorphic fu

**Classical Complex Analysis** I-Hsiung Lin, 2010 **An Introduction to Classical Complex Analysis**, 1979 **Burckel**  
**an Introduction to Classical Complex Analysis** Birkhauser Verlag AG, 1986-01-01

*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** Lars Ahlfors, 1979 A standard source of information of functions of one complex variable this text has retained its wide popularity in this field by being consistently rigorous without becoming needlessly concerned with advanced or overspecialized material Difficult points have been clarified the book has been reviewed for accuracy and notations and terminology have been modernized Chapter 2 Complex Functions features a brief section on the change of length and area under conformal mapping and much of Chapter 8 Global Analytic Functions has been rewritten in order to introduce readers to the terminology of germs and sheaves while still emphasizing that classical concepts are the backbone of the theory Chapter 4 Complex Integration now includes a new and simpler proof of the general form of Cauchy's theorem There is a short section on the Riemann zeta function showing the use of residues in a more exciting situation than in the computation of definite integrals

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