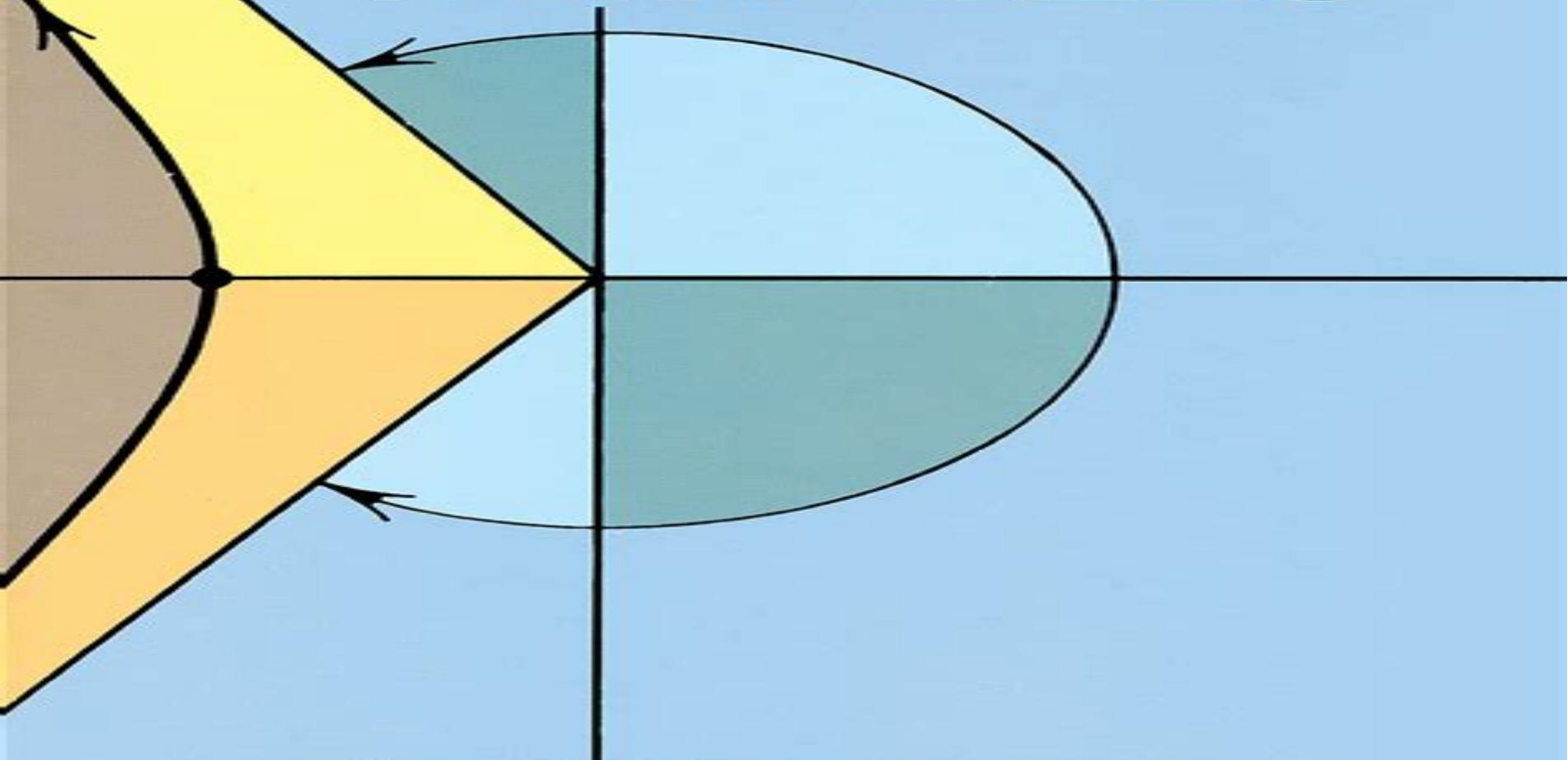


APPLIED COMPLEX VARIABLES



John W. Dettman

Applied Complex Variables

Yue Kuen Kwok



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Introduction to Complex Variables and Applications Mark J. Ablowitz,Athanassios S. Fokas,2021-03-25 The study of complex variables is beautiful from a purely mathematical point of view and very useful for solving a wide array of problems arising in applications This introduction to complex variables suitable as a text for a one semester course has been written for undergraduate students in applied mathematics science and engineering Based on the authors extensive teaching experience it covers topics of keen interest to these students including ordinary differential equations as well as Fourier and Laplace transform methods for solving partial differential equations arising in physical applications Many worked examples

applications and exercises are included With this foundation students can progress beyond the standard course and explore a range of additional topics including generalized Cauchy theorem Painlevé equations computational methods and conformal mapping with circular arcs Advanced topics are labeled with an asterisk and can be included in the syllabus or form the basis for challenging student projects **Complex Variables Applied in Science and Engineering** Harold Wayland, 1970

Functions of a Complex Variable George F. Carrier, Max Krook, Carl E. Pearson, 2005-07-01 This book makes available to readers a comprehensive range of analytical techniques based upon complex variable theory **Applied Complex Variables. Reprint. Originally Published: New York; Macmillan, 1965** John Warren Dettman, 1984 [A First Course in Applied Complex Variables](#) Lester A. Rubinfeld, 1985 **Complex Variables** Joseph L. Taylor, 2011 The text covers a broad spectrum between basic and advanced complex variables on the one hand and between theoretical and applied or computational material on the other hand With careful selection of the emphasis put on the various sections examples and exercises the book can be used in a one or two semester course for undergraduate mathematics majors a one semester course for engineering or physics majors or a one semester course for first year mathematics graduate students It has been tested in all three settings at the University of Utah The exposition is clear concise and lively There is a clean and modern approach to Cauchy's theorems and Taylor series expansions with rigorous proofs but no long and tedious arguments This is followed by the rich harvest of easy consequences of the existence of power series expansions Through the central portion of the text there is a careful and extensive treatment of residue theory and its application to computation of integrals conformal mapping and its applications to applied problems analytic continuation and the proofs of the Picard theorems Chapter 8 covers material on infinite products and zeroes of entire functions This leads to the final chapter which is devoted to the Riemann zeta function the Riemann Hypothesis and a proof of the Prime Number Theorem Publisher **Applied and Computational Complex Analysis, Volume 1** Peter Henrici, 1988-02-23 Presents applications as well as the basic theory of analytic functions of one or several complex variables The first volume discusses applications and basic theory of conformal mapping and the solution of algebraic and transcendental equations Volume Two covers topics broadly connected with ordinary differential equations special functions integral transforms asymptotics and continued fractions Volume Three details discrete fourier analysis cauchy integrals construction of conformal maps univalent functions potential theory in the plane and polynomial expansions [Applied and Computational Complex Analysis, Volume 3](#) Peter Henrici, 1993-04-16 Presents applications as well as the basic theory of analytic functions of one or several complex variables The first volume discusses applications and basic theory of conformal mapping and the solution of algebraic and transcendental equations Volume Two covers topics broadly connected with ordinary differential equations special functions integral transforms asymptotics and continued fractions Volume Three details discrete fourier analysis cauchy integrals construction of conformal maps univalent functions potential theory in the plane and polynomial expansions **Applied Complex**

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