APPLIED COMPLEX VARIABLES

John W. Dettman

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Albert A Gayle

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Applied Complex Variables John Warren Dettman,1965-01-01 Fundamentals of analytic function theory plus lucid exposition of 5 important applications potential theory ordinary differential equations Fourier transforms Laplace transforms and asymptotic expansions Includes 66 figures   **Applied complex variables** John W. Dettman,1984   **Applied Complex Variables for Scientists and Engineers** Yue Kuen Kwok,2002-02-07 This is an introduction to complex variable methods for scientists and engineers It begins by carefully defining complex numbers and analytic functions and proceeds to give accounts of complex integration Taylor series singularities residues and mappings Both algebraic and geometric tools are employed to provide the greatest understanding with many diagrams illustrating the concepts introduced The emphasis is laid on understanding the use of methods rather than on rigorous proofs One feature that will appeal to scientists is the high proportion of the book devoted to applications of the material to physical problems These include detailed treatments of potential theory hydrodynamics electrostatics gravitation and the uses of the Laplace transform for partial differential equations The text contains some 300 stimulating exercises of high quality with solutions given to many of them It will be highly suitable for students wishing to learn the elements of complex analysis in an applied context   Applied Complex Variables for Scientists and Engineers Yue-Kuen Kwok,2010 This introductory text on complex variable methods has been updated with even more examples and exercises   Applied Complex Variables. Reprint. Originally Published: New York; Macmillan, 1965 John Warren Dettman,1984   *Applied Complex Variables for Scientists and Engineers* Yue Kuen Kwok,2010-06-24 This introduction to complex variable methods begins by carefully defining complex numbers and analytic functions and proceeds to give accounts of complex integration Taylor series singularities residues and mappings Both algebraic and geometric tools are employed to provide the greatest understanding with many diagrams illustrating the concepts introduced The emphasis is laid on understanding the use of methods rather than on rigorous proofs Throughout the text many of the important theoretical results in complex function theory are followed by relevant and vivid examples in physical sciences This second edition now contains 350 stimulating exercises of high quality with solutions given to many of them Material has been updated and additional proofs on some of the important theorems in complex function theory are now included e g the Weierstrass Casorati theorem The book is highly suitable for students wishing to learn the elements of complex analysis in an applied context   **Applied Complex Variables** Paul DuChateau,1992-08   *Complex Variables with Applications* A. David Wunsch,1994 The second edition of this unique text remains accessible to students of engineering and mathematics with varying mathematical backgrounds Designed for a one semester course in complex analysis there is optional review for students who have studied only calculus and differential equations   **An Introduction to Lebesgue Integration and Fourier Series** Howard J. Wilcox,David L. Myers,1994-01-01 This book arose out of the authors desire to present Lebesgue integration and Fourier series on an undergraduate level since most undergraduate texts do not cover this

material or do so in a cursory way The result is a clear concise well organized introduction to such topics as the Riemann integral measurable sets properties of measurable sets measurable functions the Lebesgue integral convergence and the Lebesgue integral pointwise convergence of Fourier series and other subjects The authors not only cover these topics in a useful and thorough way they have taken pains to motivate the student by keeping the goals of the theory always in sight justifying each step of the development in terms of those goals In addition whenever possible new concepts are related to concepts already in the student s repertoire Finally to enable readers to test their grasp of the material the text is supplemented by numerous examples and exercises Mathematics students as well as students of engineering and science will find here a superb treatment carefully thought out and well presented that is ideal for a one semester course The only prerequisite is a basic knowledge of advanced calculus including the notions of compactness continuity uniform convergence and Riemann integration   **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** M. (Matiur) Rahman,1992   A First Course in Applied Complex Variables Lester A. Rubenfeld,1985   **Complex Variables and Their Applications** Anthony D. Osborne,1999 An understanding of functions of a complex variable together with the importance of their applications form an essential part of the study of mathematics Complex Variables and their Applications assumes as little background knowledge of the reader as is practically possible a sound knowledge of calculus and basic real analysis being the only essential pre requisites With an emphasis on clear and careful explanation the book covers all the essential topics covered in a first course on Complex Variables such as differentiation integration and applications Laurent series residue theory and applications and elementary conformal mappings The reader is also introduced to the Schwarz Christoffel transformation Dirchlet problems harmonic functions analytic continuation infinite products asymptotic series and elliptic functions Applications of complex variable theory to linear ordinary differential equations and integral transforms are also included Complex Variables and their Applications is an ideal textbook and resource for second and final year students of mathematics engineering and physics   **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   Complex Variables and Analytic Functions 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   Introduction to Functions of a Complex Variable J. H. Curtiss,2021-07-28 This book includes information on elementary general topology the Cauchy Integral Theorem and concepts of homology and homotopy in their application to the Cauchy theory It is intended for an introductory course in complex analysis at the first year graduate and advanced undergraduate level   Complex Variables Mark J. Ablowitz,Athanassios S. Fokas,2003-04-28 Complex variables provide powerful methods for attacking problems that can be very difficult to solve in any other way and it is the aim of this book to provide a thorough grounding in these methods and their application Part I of this text provides an introduction to the subject including analytic functions integration series and residue calculus and also includes transform methods ODEs in the complex plane and numerical methods Part II contains conformal mappings asymptotic expansions and the study of Riemann Hilbert problems The authors provide an extensive array of applications illustrative examples and homework exercises This 2003 edition was improved throughout and is ideal for use in undergraduate and introductory graduate level courses in complex variables   Complex Variables Applied in Science and Engineering Harold Wayland,1970   Complex Variables Carlos A. Berenstein,Roger Gay,2012-12-06 Textbooks even excellent ones are a reflection of their times Form and content of books depend on what the students know already what they are expected to learn how the subject matter is regarded in relation to other divisions of mathematics and even how fashionable the subject matter is It is thus not surprising that we no longer use such masterpieces as Hurwitz and

Courant s Funktionentheorie or Jordan s Cours d Analyse in our courses The last two decades have seen a significant change in the techniques used in the theory of functions of one complex variable The important role played by the inhomogeneous Cauchy Riemann equation in the current research has led to the reunification at least in their spirit of complex analysis in one and in several variables We say reunification since we think that Weierstrass Poincare and others in contrast to many of our students did not consider them to be entirely separate subjects Indeed not only complex analysis in several variables but also number theory harmonic analysis and other branches of mathematics both pure and applied have required a reconsideration of analytic continuation ordinary differential equations in the complex domain asymptotic analysis iteration of holomorphic functions and many other subjects from the classic theory of functions of one complex variable This ongoing reconsideration led us to think that a textbook incorporating some of these new perspectives and techniques had to be written **Introduction to Complex Variables and Applications** Mark J. Ablowitz,Athanassios S. Fokas,2021-03-25 An introduction to complex variables that caters for undergraduate students in applied mathematics science and engineering

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