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[An Introduction to Complex Analysis and the Laplace Transform](#) Vladimir Eiderman, 2021-12-20 The aim of this comparatively short textbook is a sufficiently full exposition of the fundamentals of the theory of functions of a complex variable to prepare the student for various applications Several important applications in physics and engineering are considered in the book This thorough presentation includes all theorems with a few exceptions presented with proofs No previous exposure to complex numbers is assumed The textbook can be used in one semester or two semester courses In one respect this book is larger than usual namely in the number of detailed solutions of typical problems This together with various problems makes the book useful both for self study and for the instructor as well A specific point of the book is the inclusion of the Laplace transform These two topics are closely related Concepts in complex analysis are needed to formulate and prove basic theorems in Laplace transforms such as the inverse Laplace transform formula Methods of complex analysis provide solutions for problems involving Laplace transforms Complex numbers lend clarity and completion to some areas of classical analysis These numbers found important applications not only in the mathematical theory but in the mathematical descriptions of processes in physics and engineering **A First Course in Partial Differential Equations with Complex Variables and Transform Methods** Hans F. Weinberger, 1995-01-01 Suitable for advanced undergraduate and graduate students this text presents the general properties of partial differential equations including the elementary theory of complex variables Topics include one dimensional wave equation properties of elliptic and parabolic equations separation of variables and Fourier series nonhomogeneous problems and analytic functions of a complex variable Solutions 1965 edition

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first five chapters encompass the core material of the book These chapters cover fundamental concepts holomorphic and harmonic functions Cauchy theory and its applications and isolated singularities Subsequent chapters discuss the argument principle geometric theory and conformal mapping followed by a more advanced discussion of harmonic functions The author also presents a detailed glimpse of how complex variables are used in the real world with chapters on Fourier and Laplace transforms as well as partial differential equations and boundary value problems The final chapter explores computer tools including Mathematica Maple™ and MATLAB that can be employed to study complex variables Each chapter contains physical applications drawing from the areas of physics and engineering Offering new directions for further learning this text provides modern students with a powerful toolkit for future work in the mathematical sciences

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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 *Complex Variables* Steven G. Krantz,2019-04-16 The idea of complex numbers dates back at least 300 years to Gauss and Euler among others Today complex analysis is a central part of modern analytical thinking It is used in engineering physics mathematics astrophysics and many other fields It provides powerful tools for doing mathematical analysis and often yields pleasing and unanticipated answers This book makes the subject of

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