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throughout the text Complex Analysis for Practical Engineering Kozo Sato,2015-03-02 Maximizing reader insights into the fundamentals of complex analysis and providing complete instructions on how to construct and use mathematical tools to solve engineering problems in potential theory this book covers complex analysis in the context of potential flow problems The basic concepts and methodologies covered are easily extended to other problems of potential theory Featuring case studies and problems that aid readers understanding of the key topics and of their application to practical engineering problems this book is suitable as a guide for engineering practitioners The complex analysis problems discussed in this book will prove useful in solving practical problems in a variety of engineering disciplines including flow dynamics electrostatics heat conduction and gravity fields **Advances in the Complex Variable Boundary Element Method** Theodore V. Hromadka,Robert J. Whitley,2013-03-14 Since its inception by Hromadka and Guymon in 1983 the Complex Variable Boundary Element Method or CVBEM has been the subject of several theoretical adventures as well as numerous exciting applications The CVBEM is a numerical application of the Cauchy Integral theorem well known to students of complex variables to two dimensional potential problems involving the Laplace or Poisson equations Because the numerical application is analytic the approximation exactly solves the Laplace equation This attribute of the CVBEM is a distinct advantage over other numerical techniques that develop only an inexact approximation of the Laplace equation In this book several of the advances in CVBEM technology that have evolved since 1983 are assembled according to primary topics including theoretical developments applications and CVBEM modeling error analysis The book is self contained on a chapter basis so that the reader can go to the chapter of interest rather than necessarily reading the entire prior material Most of the applications presented in this book are based on the computer programs listed in the prior CVBEM book published by Springer Verlag Hromadka and Lai 1987 and so are not republished here

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