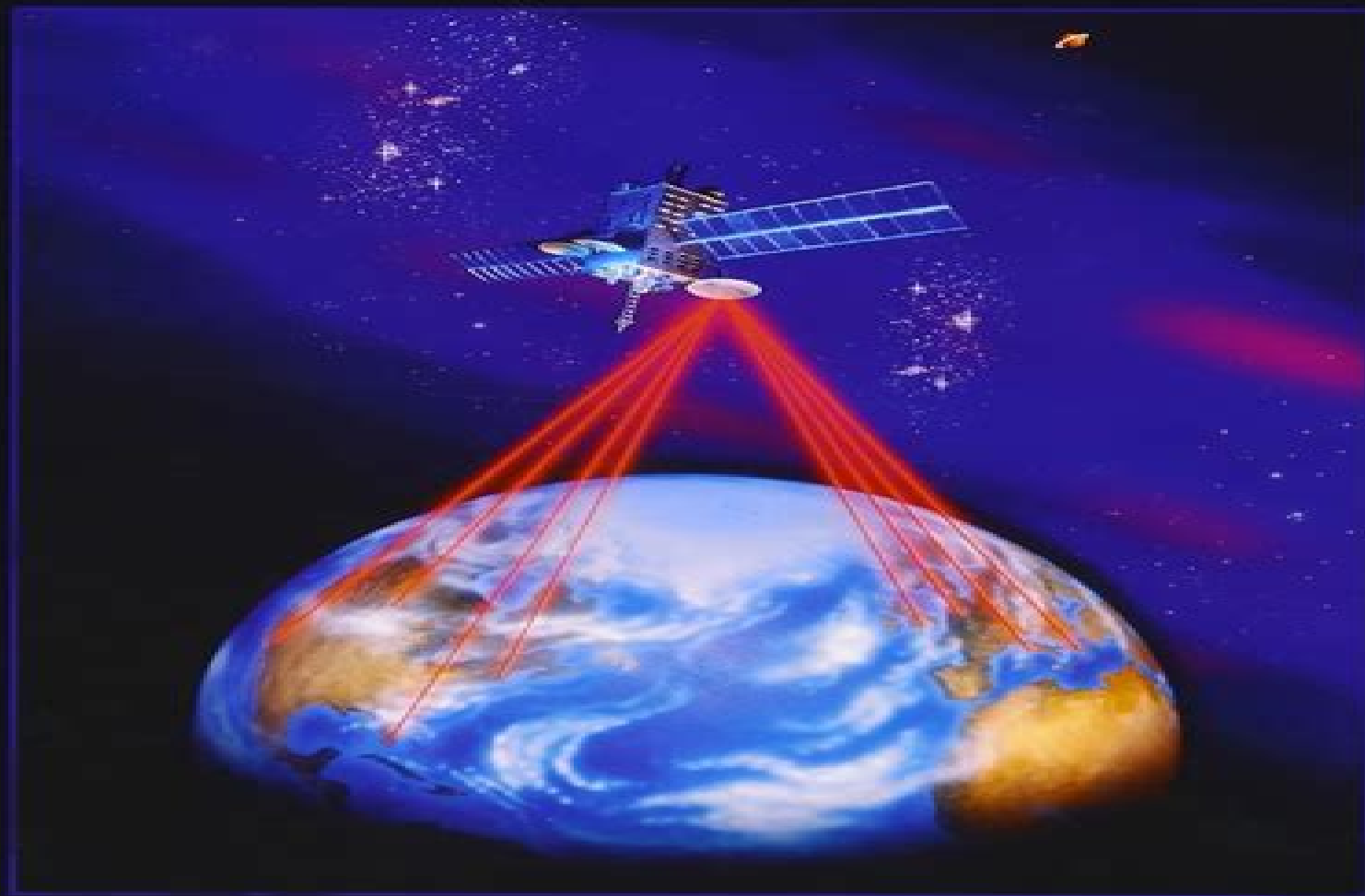


Fundamentals of Complex Analysis

with Applications to Engineering and Science

Third Edition



E. B. Saff • A. D. Snider

Fundamentals Of Complex Analysis Saff Snider

Mark J. Ablowitz, Athanassios S. Fokas



Fundamentals Of Complex Analysis Saff Snider:

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problems students encounter in other courses For example students who have taken an introductory physics course will have encountered analysis of simple AC circuits This text revisits such analysis using complex numbers Cauchy's residue theorem is used to evaluate many types of definite integrals that students are introduced to in the beginning calculus sequence Methods of conformal mapping are used to solve problems in electrostatics The book contains material that is not considered in other popular complex analysis texts *Handbook of Complex Variables* Steven G. Krantz, 2012-12-06 This book is written to be a convenient reference for the working scientist student or engineer who needs to know and use basic concepts in complex analysis It is not a book of mathematical theory It is instead a book of mathematical practice All the basic ideas of complex analysis as well as many typical applications are treated Since we are not developing theory and proofs we have not been obliged to conform to a strict logical ordering of topics Instead topics have been organized for ease of reference so that cognate topics appear in one place Required background for reading the text is minimal a good grounding in real variable calculus will suffice However the reader who gets maximum utility from the book will be that reader who has had a course in complex analysis at some time in his life This book is a handy compendium of all basic facts about complex variable theory But it is not a textbook and a person would be hard put to endeavor to learn the subject by reading this book Complex Variables Steven G. Krantz, 2007-09-19 From the algebraic properties of a complete number field to the analytic properties imposed by the Cauchy integral formula to the geometric qualities originating from conformality *Complex Variables A Physical Approach with Applications and MATLAB* explores all facets of this subject with particular emphasis on using theory in practice The 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 *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

AETA 2016: Recent Advances in Electrical Engineering and Related Sciences Vo Hoang Duy, Tran Trong Dao, Sang Bong Kim, Nguyen Tan Tien, Ivan Zelinka, 2016-12-02 These lecture notes present selected topics concerning a wide range of electrical and electronics applications highlighting innovative approaches and offering state of the art overviews The book is divided into 14 topical areas including e g telecommunication power systems robotics control systems renewable energy mechanical engineering computer science and more Readers will find revealing papers on the design and implementation of control algorithms for automobiles and electrohydraulic systems efficient protocols for vehicular ad hoc networks and motor control and energy saving methods that can be applied in various fields of electrical engineering The book offers a valuable resource for all practitioners who want to apply the topics discussed to solve real world problems in their challenging applications Offering insights into common and related subjects in the research fields of modern electrical electronic and related technologies it will also benefit all scientists and engineers working in the above mentioned fields

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