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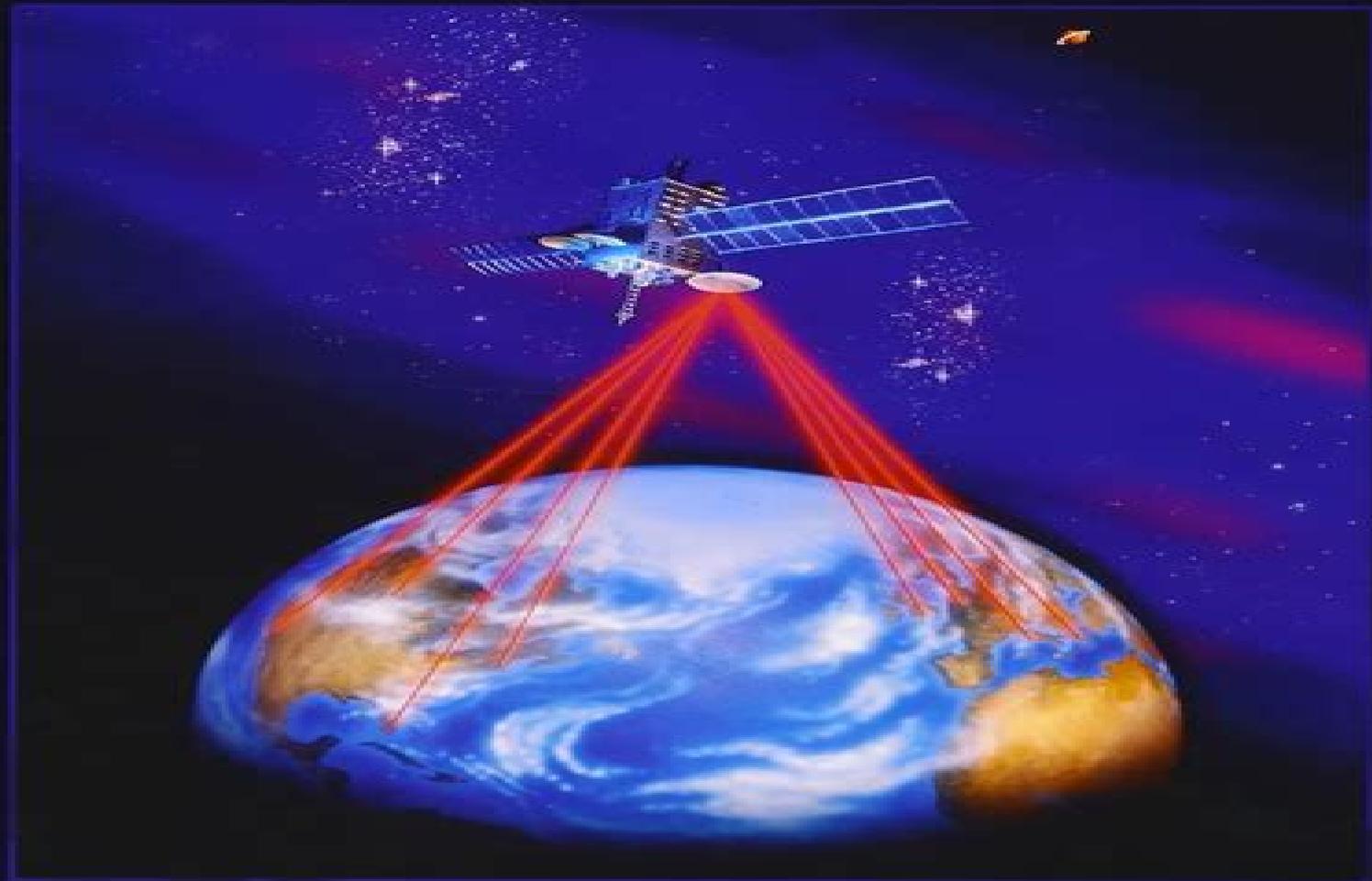# Complex Analysis

with Applications to Engineering and Science

THIRD EDITION

E. B. Saff • A. D. Snider

Complex Analysis For Mathematics And Engineering

John P. D'Angelo

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achieves its most beautiful and powerful expression *Linear and Complex Analysis for Applications* John P. D'Angelo,2017-08-02 Linear and Complex Analysis for Applications aims to unify various parts of mathematical analysis in an engaging manner and to provide a diverse and unusual collection of applications both to other fields of mathematics and to physics and engineering The book evolved from several of the author s teaching experiences his research in complex analysis in several variables and many conversations with friends and colleagues It has three primary goals to develop enough linear analysis and complex variable theory to prepare students in engineering or applied mathematics for advanced work to unify many distinct and seemingly isolated topics to show mathematics as both interesting and useful especially via the juxtaposition of examples and theorems The book realizes these goals by beginning with reviews of Linear Algebra Complex Numbers and topics from Calculus III As the topics are being reviewed new material is inserted to help the student develop skill in both computation and theory The material on linear algebra includes infinite dimensional examples arising from elementary calculus and differential equations Line and surface integrals are computed both in the language of classical vector analysis and by using differential forms Connections among the topics and applications appear throughout the book The text weaves abstract mathematics routine computational problems and applications into a coherent whole whose unifying theme is linear systems It includes many unusual examples and contains more than 450 exercises A Complex Analysis Problem Book Daniel Alpay,2016-10-26 This second edition presents a collection of exercises on the theory of analytic functions including completed and detailed solutions It introduces students to various applications and aspects of the theory of analytic functions not always touched on in a first course while also addressing topics of interest to electrical engineering students e g the realization of rational functions and its connections to the theory of linear systems and state space representations of such systems It provides examples of important Hilbert spaces of analytic functions in particular the Hardy space and the Fock space and also includes a section reviewing essential aspects of topology functional analysis and Lebesgue integration Benefits of the 2nd edition Rational functions are now covered in a separate chapter Further the section on conformal mappings has been expanded *Complex Analysis* Andrei Bourchtein,Ludmila Bourchtein,2021-02-09 This book discusses all the major topics of complex analysis beginning with the properties of complex numbers and ending with the proofs of the fundamental principles of conformal mappings Topics covered in the book include the study of holomorphic and analytic functions classification of singular points and the Laurent series expansion theory of residues and their application to evaluation of integrals systematic study of elementary functions analysis of conformal mappings and their applications making this book self sufficient and the reader independent of any other texts on complex variables The book is aimed at the advanced undergraduate students of mathematics and engineering as well as those interested in studying complex analysis with a good working knowledge of advanced calculus The mathematical level of the exposition corresponds to advanced undergraduate courses of mathematical analysis and first graduate introduction to the discipline The book

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