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Sasane Alan Jeffrey L. Hormander

outstanding undergraduate text provides a thorough understanding of fundamentals and creates the basis for higher level courses numerous examples and extensive exercise sections of varying difficulty plus answers to selected exercises 1990 edition

this text on complex variables is geared toward graduate students and undergraduates who have taken an introductory course in real analysis it is a substantially revised and updated edition of the popular text by robert b ash offering a concise treatment that provides careful and complete explanations as well as numerous problems and solutions an introduction presents basic definitions covering topology of the plane analytic functions real differentiability and the cauchy riemann equations and exponential and harmonic functions succeeding chapters examine the elementary theory and the general cauchy theorem and its applications including singularities residue theory the open mapping theorem for analytic functions linear fractional transformations conformal mapping and analytic mappings of one disk to another the riemann mapping theorem receives a thorough treatment along with factorization of analytic functions as an application of many of the ideas and results appearing in earlier chapters the text ends with a proof of the prime number theorem

topics include the complex plane basic properties of analytic functions analytic functions as mappings analytic and harmonic functions in applications transform methods hundreds of solved examples exercises applications 1990 edition appendices

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this textbook introduces the theory of complex variables at undergraduate level a good collection of problems is provided in the second part of the book the book is written in a user friendly style that presents important

fundamentals a beginner needs to master the technical details of the subject the organization of problems into focused sets is an important feature of the book and the teachers may adopt this book for a course on complex variables and for mining problems

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

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

the new second edition of a first course in complex analysis with applications is a truly accessible introduction to

the fundamental principles and applications of complex analysis designed for the undergraduate student with a calculus background but no prior experience with complex variables this text discusses theory of the most relevant mathematical topics in a student friendly manner with zill s clear and straightforward writing style concepts are introduced through numerous examples and clear illustrations students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity each chapter contains a separate section on the applications of complex variables providing students with the opportunity to develop a practical and clear understanding of complex analysis

the original edition of this book has been out of print for some years the appear ance of the present second edition owes much to the initiative of yves nievergelt at eastern washington university and the support of ann kostant mathematics editor at birkhauser since the book was first published several people have remarked on the absence of exercises and expressed the opinion that the book would have been more useful had exercises been included in 1997 yves nievergelt informed me that for a decade he had regularly taught a course at eastern washington based on the book and that he had systematically compiled exercises for his course he kindly put his work at my disposal thus the present edition appears in two parts the first is essentially just a reprint of the original edition i have corrected the misprints of which i have become aware including those pointed out to me by others and have made a small number of other minor changes

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

the second edition of this comprehensive and accessible text continues to offer students a challenging and

enjoyable study of complex variables that is infused with perfect balanced coverage of mathematical theory and applied topics the author explains fundamental concepts and techniques with precision and introduces the students to complex variable theory through conceptual develop ment of analysis that enables them to develop a thorough understanding of the topics discussed geometric interpretation of the results wherever necessary has been inducted for making the analysis more accessible the level of the text assumes that the reader is acquainted with elementary real analysis beginning with the revision of the algebra of complex variables the book moves on to deal with analytic functions elementary functions complex integration sequences series and infinite products series expansions singularities and residues the application oriented chapters on sums and integrals conformal mappings laplace transform and some special topics provide a practical use perspective enriched with many numerical examples and exercises designed to test the student s comprehension of the topics covered this book is written for a one semester course in complex variables for students in the science and engineering disciplines

complex analysis is a classic and central area of mathematics which is studies and exploited in a range of important fields from number theory to engineering introduction to complex analysis was first published in 1985 and for this much awaited second edition the text has been considerably expanded while retaining the style of the original more detailed presentation is given of elementary topics to reflect the knowledge base of current students exercise sets have been substantially revised and enlarged with carefully graded exercises at the end of each chapter

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the book constitutes a basic concise yet rigorous first course in complex analysis for undergraduate students who have studied multivariable calculus and linear algebra the textbook should be particularly useful for students of joint programmes with mathematics as well as engineering students seeking rigour the aim of the book is to cover the bare bones of the subject with minimal prerequisites the core content of the book is the three main

pillars of complex analysis the cauchy riemann equations the cauchy integral theorem and taylor and laurent series each section contains several problems which are not drill exercises but are meant to reinforce the fundamental concepts detailed solutions to all the 243 exercises appear at the end of the book making the book ideal for self study there are many figures illustrating the text the second edition corrects errors from the first edition and includes 89 new exercises some of which cover auxiliary topics that were omitted in the first edition two new appendices have been added one containing a detailed rigorous proof of the cauchy integral theorem and another providing background in real analysis needed to make the book self contained

complex analysis and applications second edition explains complex analysis for students of applied mathematics and engineering restructured and completely revised this textbook first develops the theory of complex analysis and then examines its geometrical interpretation and application to dirichlet and neumann boundary value problems p

an introduction to complex analysis in several variables

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