Schaums Outline Of Complex Variables Murray R Spiegel

Complex Variables: Principles And Problem SessionsComplex Variables and ApplicationsComplex Variables I EssentialsElements of Complex VariablesApplied Complex Variables for Scientists and EngineersTheory Of Complex VariableFunctions of Complex VariablesComplex Variables and Their ApplicationsFunctions of a Complex VariableComplex VariablesFunctions of One Complex Variable IComplex Variables with ApplicationsFunctions of Complex VariablesAn Introduction to Complex Analysis in Several VariablesComplex Analysis in One VariableComplex VariablesHandbook of Complex VariablesComplex VariablesIntroduction to Complex Analysis in Several VariablesFunctions of A Complex Variable A K Kapoor James Ward Brown Alan D. Solomon Louis Legendre Pennisi Yue Kuen Kwok R.K. Pandey Philip 1898- Franklin Anthony D. Osborne George F. Carrier Joseph L. Taylor John B. Conway Saminathan Ponnusamy Zane C. Motteler L. Hormander Raghavan Narasimhan H. R. Chillingworth Steven G. Krantz Carlos A Berenstein Volker Scheidemann J.N. Sharma

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Berenstein Volker Scheidemann J.N. Sharma

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

this text and accompanying disk provides coverage of complex variables it uses examples and exercise sets with clear explanations of problem solving techniqes and material on the further theory of functions

rea s essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced as its name implies these concise comprehensive study guides summarize the essentials of the field covered essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals complex variables i includes functions of a complex variable elementary complex functions integrals of complex functions in the complex plane sequences and series and poles and residues

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

contents algebra of complex number functions of complex number limit and continuity analytic functions complex integration cauchy integral theorem contour integration series in complex number taylor and laurent series

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

this book makes available to readers a comprehensive range of analytical techniques based upon complex variable theory

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 book presents a basic introduction to complex analysis in both an interesting and a rigorous manner it contains enough material for a full year s course and the choice of material treated is reasonably standard and should be satisfactory for most first courses in complex analysis the approach to each topic appears to be carefully thought out both as to mathematical treatment and pedagogical presentation and the end result is a very satisfactory book mathscinet

explores the interrelations between real and complex numbers by adopting both generalization and specialization methods to move between them while simultaneously examining their analytic and geometric characteristics engaging exposition with discussions remarks questions and exercises to motivate understanding and critical thinking skills encludes numerous examples and applications relevant to science and engineering students

an introduction to complex analysis in several variables

the original edition of this book has been out of print for some years the appearance 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

complex variables covers topics ranging from complex numbers to point sets in the complex plane elementary functions straight lines and circles simple and conformal transformations and zeros and singularities cauchy s theorem taylor s theorem laurent s theorem contour integration and miscellaneous theorems are also discussed this volume consists of 14 chapters the first of which introduces the theory of complex numbers and their development either from an algebraic or from a geometrical viewpoint emphasis is on the complex plane modulus amplitude number pairs complex conjugates the triangle inequality de moivre s theorem and the four mathematical operations addition subtraction multiplication division attention then turns to point sets in the complex plane infinite series and tests for convergence functions of a complex variable and elementary functions the chapters that follow focus on straight lines and circles simple and conformal transformations and integration exercises are included in every section of each chapter except the last this book is written primarily for students and teachers of mathematics

this handbook is a reference and authoritative resource for all professionals practitioners and researchers in mathematics physical science and engineering book jacket

this book provides a comprehensive introduction to complex analysis in several variables one major focus of the book is extension phenomena alien to the one dimensional theory hartog s kugelsatz theorem of cartan thullen bochner s theorem the book primarily aims at students starting to work in the field of complex analysis in several variables and teachers who want to prepare a university lecture therefore the book contains more than 50 examples and more than 100 supporting exercises

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