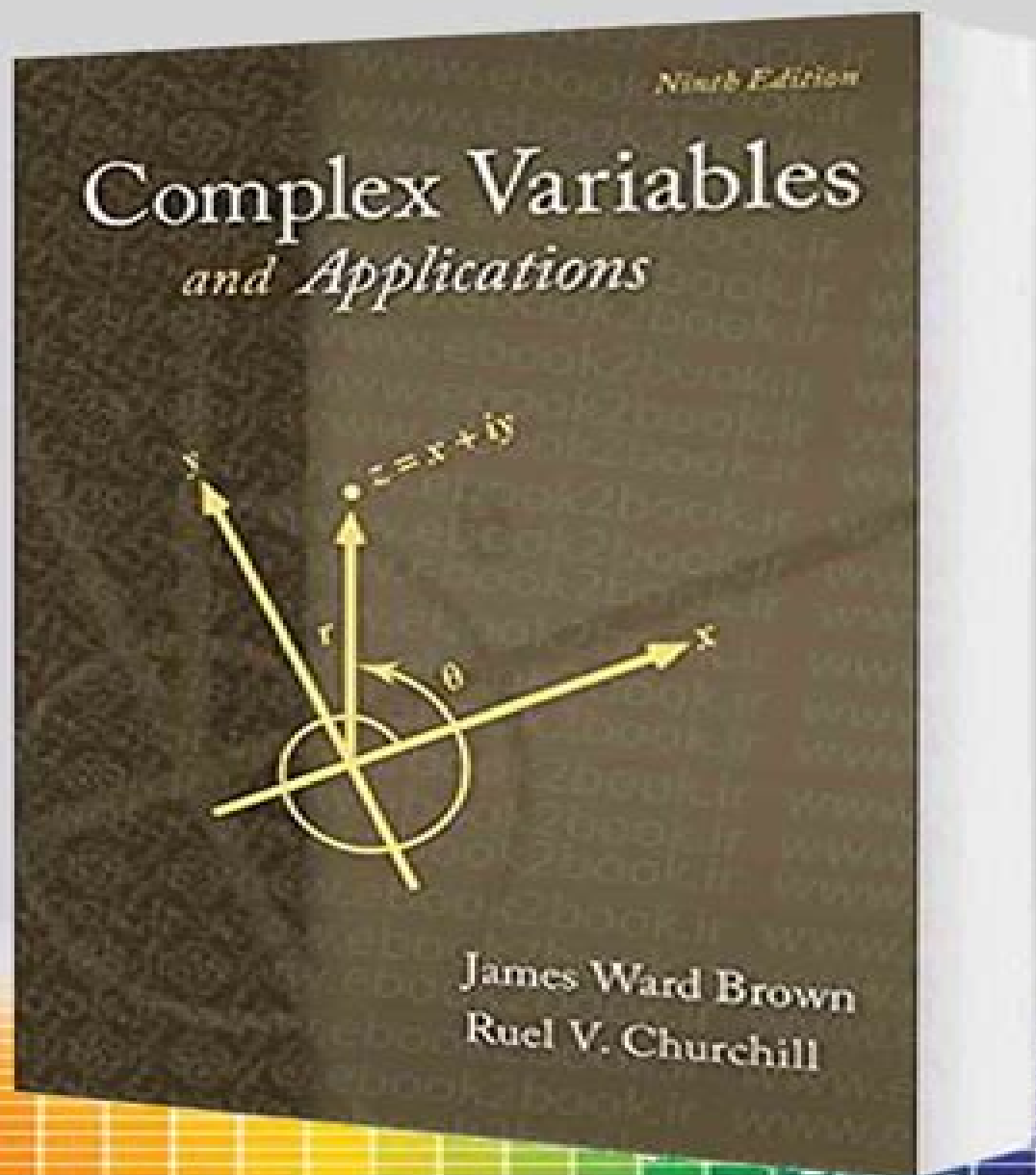


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Complex Variables And Applications 9th Edition

John M. Lee



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Special Integrals Abhishek Mishra, 2025-03-24 Targeted to upper undergraduate and graduate students of mathematics this book discusses special integrals and their applications in finding certain series sums It starts with the differentiation and the integration methods for summing a series that is applied to find the sum of various binomial and trigonometrical series It also discusses methods to find the sum of series involving the variables having exponents in integral or fractional powers of 2 Complex variables are freely used to derive several theorems which result in several special integrals and series sums Bessel coefficients Bessel functions and their various generalizations are also discussed in the book As a particular case of generalized Bessel functions pseudo exponential functions are defined and their properties are studied in the book Broadly divided into two parts Part 1 and Part 2 the book has six chapters in Part 1 whereas Part 2 has six chapters on solutions to the problems in Part 1 To understand the topics in the book the minimum prerequisites are the knowledge of calculus complex analysis and Fourier series

Topics in Applied Mathematics and Modeling Oscar Gonzalez, 2022-12-05 The analysis and interpretation of mathematical models is an essential part of the modern scientific process Topics in Applied Mathematics and Modeling is designed for a one semester course in this area aimed at a wide undergraduate audience in the mathematical sciences The prerequisite for access is exposure to the central ideas of linear algebra and ordinary differential equations The subjects explored in the book are dimensional analysis and scaling dynamical systems perturbation methods and calculus of variations These are immense subjects of wide applicability and a fertile ground for critical thinking and quantitative reasoning in which every student of mathematics should have some experience Students who use this book will enhance their understanding of mathematics acquire tools to explore meaningful scientific problems and increase their preparedness for future research and advanced studies The highlights of the book are case studies and mini projects which illustrate the mathematics in action The book also contains a wealth of examples figures and regular exercises to support teaching and learning The book includes opportunities for computer aided explorations and each chapter contains a bibliography with references covering further details of the material

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students in mathematics and engineering This edition preserves the basic content and style of earlier editions and includes many new and relevant applications which are introduced early in the text

Numerical Analysis of Ordinary and Delay Differential Equations Taketomo Mitsui, Guang-Da Hu, 2023-05-23 This book serves as a concise textbook for students in an advanced undergraduate or first year graduate course in various disciplines such as applied mathematics control and engineering who want to understand the modern standard of numerical methods of ordinary and delay differential equations Experts in the same fields can also learn about the recent developments in numerical analysis of such differential systems Ordinary differential equations ODEs provide a strong mathematical tool to express a wide variety of phenomena in science and engineering Along with its own significance one of the powerful directions toward which ODEs extend is to incorporate an unknown function with delayed argument This is called delay differential equations DDEs which often appear in mathematical modelling of biology demography epidemiology and control theory In some cases the solution of a differential equation can be obtained by algebraic combinations of known mathematical functions In many practical cases however such a solution is quite difficult or unavailable and numerical approximations are called for Modern development of computers accelerates the situation and moreover launches more possibilities of numerical means Henceforth the knowledge and expertise of the numerical solution of differential equations becomes a requirement in broad areas of science and engineering One might think that a well organized software package such as MATLAB serves much the same solution In a sense this is true but it must be kept in mind that blind employment of software packages misleads the user The gist of numerical solution of differential equations still must be learned The present book is intended to provide the essence of numerical solutions of ordinary differential equations as well as of delay differential equations Particularly the authors noted that there are still few concise textbooks of delay differential equations and then they set about filling the gap through descriptions as transparent as possible Major algorithms of numerical solution are clearly described in this book The stability of solutions of ODEs and DDEs is crucial as well The book introduces the asymptotic stability of analytical and numerical solutions and provides a practical way to analyze their stability by employing a theory of complex functions

A First Course In Partial Differential Equations J Robert Buchanan, Zhouda Shao, 2017-10-30 This textbook gives an introduction to Partial Differential Equations PDEs for any reader wishing to learn and understand the basic concepts theory and solution techniques of elementary PDEs The only prerequisite is an undergraduate course in Ordinary Differential Equations This work contains a comprehensive treatment of the standard second order linear PDEs the heat equation wave equation and Laplace's equation First order and some common nonlinear PDEs arising in the physical and life sciences with their solutions are also covered This textbook includes an introduction to Fourier series and their properties an introduction to regular Sturm Liouville boundary value problems special functions of mathematical physics a treatment of nonhomogeneous equations and boundary conditions using methods such as Duhamel's principle and an introduction to the finite difference

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Complex Variables and Applications James Ward Brown, Ruel Vance Churchill, 1996 This text and accompanying disk provides coverage of complex variables It uses examples and exercise sets with clear explanations of problem solving techniques and material on the further theory of functions

Functions of a Complex Variable Dragoslav S. Mitrinović, 1965

College Textbooks Jane Clapp, 1960

Proceedings of the Society for Experimental Mechanics Society for Experimental Mechanics (U.S.), 1995

Forthcoming Books Rose Arny, 2002

Реферативный журнал, 1963

Complex Variables and Applications Brown, 2013-08-30 This text serves as an introductory course in the theory and application of functions of a complex variable The text is designed to develop the theory that is prominent in applications of the subject Readers will find a special emphasis given to the application of residues and conformal mappings

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