



Functions Of A Complex Variable

Thomas Murray MacRobert



Functions Of A Complex Variable:

Functions of One Complex Variable I John B. Conway, 2012-12-06 This book is intended as a textbook for a first course in the theory of functions of one complex variable for students who are mathematically mature enough to understand and execute 8 arguments The actual pre requisites for reading this book are quite minimal not much more than a stiff course in basic calculus and a few facts about partial derivatives The topics from advanced calculus that are used e g Leibniz's rule for differentiating under the integral sign are proved in detail Complex Variables is a subject which has something for all mathematicians In addition to having applications to other parts of analysis it can rightly claim to be an ancestor of many areas of mathematics e g homotopy theory manifolds This view of Complex Analysis as An Introduction to Mathematics has influenced the writing and selection of subject matter for this book The other guiding principle followed is that all definitions theorems etc

Theory of Functions of a Complex Variable Narayan Shanti & Mittal P.K., 2005-03 Theory of Functions of a Complex Variable *Functions of a Complex Variable* George F. Carrier, Max Krook, Carl E. Pearson, 2005-07-01 This book makes available to readers a comprehensive range of analytical techniques based upon complex variable theory

Functions of One Complex Variable I John B. Conway, 1995-04-07 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

Functions of a Complex Variable Vladimir Ivanovich Smirnov, Nikolai Andreevich Lebedev, 1968

Complex Variables Joseph L. Taylor, 2011 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

Function Theory of One Complex Variable Robert Everist Greene, Steven George Krantz, 2006 Complex analysis is one of the most central subjects in mathematics It is compelling and

rich in its own right but it is also remarkably useful in a wide variety of other mathematical subjects both pure and applied This book covers complex variables as a direct development from multivariable real calculus

Theory of Functions of a Complex Variable Constantin Carathéodory,1958

Functions of a Complex Variable E.G. Phillips,2020-04-15 This concise text on the functions of a complex variable provides the basics on a number of important topics including conformal representation complex integral calculus and calculus of residues 1957 edition

Functions of a Complex Variable, with Applications Edgar Giraldus Phillips,1940

Functions of a Complex Variable Edgar Jerome Townsend,1915

Functions of a Complex Variable Thomas Murray MacRobert,1950

Lectures on Functions of a Complex Variable Wilfred Kaplan,1955

Functions of a Complex Variable James Pierpont,1914 A thorough treatment of fundamental elements concepts and theorems pertaining to the function of a complex variable this rigorous treatment is suitable for advanced mathematics students physicists and engineers 1914 edition

Functions of a Complex Variable Thomas Scott Fiske,1896

Elementary Theory of Analytic Functions of One or Several Complex Variables Henri Cartan,2013-04-22 Basic treatment includes existence theorem for solutions of differential systems where data is analytic holomorphic functions Cauchy s integral Taylor and Laurent expansions more Exercises 1973 edition

Segunda guerra mundial. Cano , *Analytic Functions of Several Complex Variables* Robert C. Gunning,Hugo Rossi,2022-08-25 The theory of analytic functions of several complex variables enjoyed a period of remarkable development in the middle part of the twentieth century After initial successes by Poincaré and others in the late 19th and early 20th centuries the theory encountered obstacles that prevented it from growing quickly into an analogue of the theory for functions of one complex variable Beginning in the 1930s initially through the work of Oka then H Cartan and continuing with the work of Grauert Remmert and others new tools were introduced into the theory of several complex variables that resolved many of the open problems and fundamentally changed the landscape of the subject These tools included a central role for sheaf theory and increased uses of topology and algebra The book by Gunning and Rossi was the first of the modern era of the theory of several complex variables which is distinguished by the use of these methods The intention of Gunning and Rossi s book is to provide an extensive introduction to the Oka Cartan theory and some of its applications and to the general theory of analytic spaces Fundamental concepts and techniques are discussed as early as possible The first chapter covers material suitable for a one semester graduate course presenting many of the central problems and techniques often in special cases The later chapters give more detailed expositions of sheaf theory for analytic functions and the theory of complex analytic spaces Since its original publication this book has become a classic resource for the modern approach to functions of several complex variables and the theory of analytic spaces Further information about this book including updates can be found at the following URL www.ams.org/publications/authors/books/postpub/chel_368

Theory of Functions of a Complex Variable Andrew Russell Forsyth,1893

The Theory of Functions of a Complex Variable Alekseï Georgievich Sveshnikov,Andrei

Nikolaevich Tikhonov, 1978 The complex variable and functions of a complex variable Series of analytical functions Analytic continuation elementary The laurent series and isolated singular points Residues and their applications Conformal mapping Analytic functions in the solutions of boundary value problems Fundamentals of operational calculus Saddle point method The wiener hopf method Functions of many complex variables

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