

Complex Analysis in One Variable

Second Edition

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Complex Analysis In One Variable

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Complex Analysis In One Variable:

Complex Analysis in one Variable NARASIMHAN, 2012-12-06 This book is based on a first year graduate course I gave three times at the University of Chicago As it was addressed to graduate students who intended to specialize in mathematics I tried to put the classical theory of functions of a complex variable in context presenting proofs and points of view which relate the subject to other branches of mathematics Complex analysis in one variable is ideally suited to this attempt Of course the branches of mathematics one chooses and the connections one makes must depend on personal taste and knowledge My own leaning towards several complex variables will be apparent especially in the notes at the end of the different chapters The first three chapters deal largely with classical material which is available in the many books on the subject I have tried to present this material as efficiently as I could and even here to show the relationship with other branches of mathematics Chapter 4 contains a proof of Picard's theorem the method of proof I have chosen has far reaching generalizations in several complex variables and in differential geometry The next two chapters deal with the Runge approximation theorem and its many applications The presentation here has been strongly influenced by work on several complex variables *Complex Analysis in One Variable* Raghavan Narasimhan, 1985

A Course in Complex Analysis in One Variable Martin A. Moskowitz, 2002 Organized in an especially efficient manner presenting basic complex analysis Includes about 50 exercises **A Course In Complex Analysis In One Variable** Martin Moskowitz, 2002-04-17 Complex analysis is a beautiful subject perhaps the single most beautiful and striking in mathematics It presents completely unforeseen results that are of a dramatic even magical nature This invaluable book will convey to the student its excitement and extraordinary character The exposition is organized in an especially efficient manner presenting basic complex analysis in around 130 pages with about 50 exercises The material constantly relates to and contrasts with that of its sister subject real analysis An unusual feature of this book is a short final chapter containing applications of complex analysis to Lie theory Since much of the content originated in a one semester course given at the CUNY Graduate Center the text will be very suitable for first year graduate students in mathematics who want to learn the basics of this important subject For advanced undergraduates there is enough material for a year long course or by concentrating on the first three chapters for one semester course

Complex Analysis in One Variable Raghavan Narasimhan, Yves Nievergelt, 2012-12-06 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 *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

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 Complex Analysis and Dynamics in One Variable with Applications Luis T. Magalhães, 2025-05-26 This textbook has been designed to support the initial study of Complex Analysis progressing to Complex Dynamics It focuses on the fundamental aspects of one variable complex functions covering the geometric theory and dynamics of iterations of rational mappings Following the standard material the book delves into an extensive range of advanced topics encompassing the requirements for a one year graduate level course or a preliminary exam In this work the reader will discover three distinctive characteristics it simplifies and unifies ideas and concepts that might appear disparate or complicated in real analysis it contributes to the development of other areas in mathematics and it showcases relevance for applications in Science and Engineering with many exercises Historical notes throughout the text help to contextualize the theory With its flexible structure this textbook provides a solid foundation for a first course in Complex Analysis and for a second more advanced course establishing a robust basis for subsequent studies *Complex Analysis In One Variable, 2E* Raghavan Narasimhan, 2004-01-01 **Complex Analysis** Lars Ahlfors, 1979 A standard source of information of functions of one complex variable this text has retained its wide popularity in this field by being consistently rigorous without becoming needlessly concerned with advanced or overspecialized material Difficult points have been clarified the book has been reviewed for accuracy and notations and terminology have been modernized Chapter 2 Complex Functions features a brief

section on the change of length and area under conformal mapping and much of Chapter 8 Global Analytic Functions has been rewritten in order to introduce readers to the terminology of germs and sheaves while still emphasizing that classical concepts are the backbone of the theory Chapter 4 Complex Integration now includes a new and simpler proof of the general form of Cauchy's theorem There is a short section on the Riemann zeta function showing the use of residues in a more exciting situation than in the computation of definite integrals

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