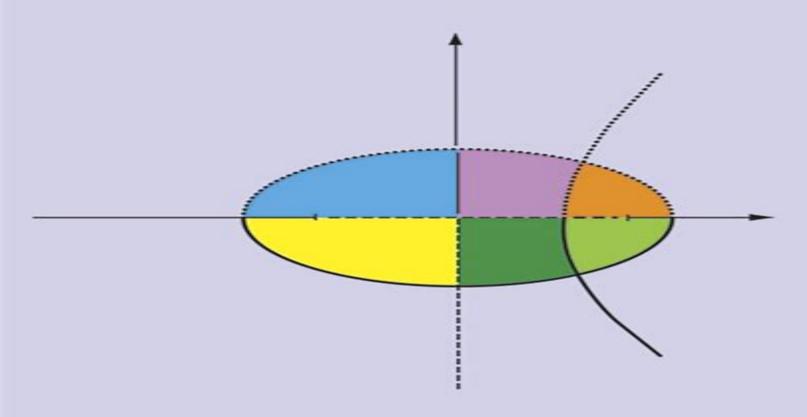
ELEMENTARY THEORY OF ANALYTIC FUNCTIONS OF ONE OR SEVERAL COMPLEX VARIABLES



HENRI CARTAN

Elementary Complex Variables

Frank T. Birtel

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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

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concepts of complex convexity related to the remarkable extension properties of holomorphic functions in more than one variable It then continues with a comprehensive introduction to integral representations and concludes with complete proofs of substantial global results on domains of holomorphy and on strictly pseudoconvex domains in Cincluding for example C Fefferman's famous Mapping Theorem The most important new feature of this book is the systematic inclusion of many of the developments of the last 20 years which centered around integral representations and estimates for the Cauchy Riemann equations In particular integral representations are the principal tool used to develop the global theory in contrast to many earlier books on the subject which involved methods from commutative algebra and sheaf theory and or partial differ ential equations I believe that this approach offers several advantages 1 it uses the several variable version of tools familiar to the analyst in one complex variable and therefore helps to bridge the often perceived gap between complex analysis in one and in several variables 2 it leads quite directly to deep global results without introducing a lot of new machinery and 3 concrete integral representations lend themselves to estimations therefore opening the door to applications not accessible by the earlier methods Complex Analysis 2 Eberhard Freitag, 2011-06-10 The book contains a complete self contained introduction to highlights of classical complex analysis New proofs and some new results are included All needed notions are developed within the book with the exception of some basic facts which can be found in the rst volume There is no An introduction to the theory of complex variables, comparable treatment in the literature Analysis Jerrold E. Marsden, Michael J. Hoffman, 1993-03-15 Designed for courses in advanced calculus and introductory real analysis Elementary Classical Analysis strikes a careful balance between pure and applied mathematics with an emphasis on specific techniques important to classical analysis without vector calculus or complex analysis Intended for students of engineering and physical science as well as of pure mathematics Complex Analysis Jane P. Gilman, Irwin Kra, Rubí E. Rodríguez, 2007-11-25 The authors aim here is to present a precise and concise treatment of those parts of complex analysis that should be familiar to every research mathematician They follow a path in the tradition of Ahlfors and Bers by dedicating the book to a very precise goal the statement and proof of the Fundamental Theorem for functions of one complex variable They discuss the many equivalent ways of understanding the concept of analyticity and offer a leisure exploration of interesting consequences and applications Readers should have had undergraduate courses in advanced calculus linear algebra and some abstract algebra No background in complex analysis is required **Complex Numbers and Elementary Complex Functions** Faith Mary Hawkins, J. Q. Hawkins, 1969

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