

Theory of Functions of a Complex Variable



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目录: Part One: Complex Numbers: The complex numbers from the algebraic point of view The geometry of the complex numbers Euclidean, spherical, and non-Euclidean geometry; Part Two: Some Results From Point Set Theory and From Topology: Convergent sequences of numbers and continuous complex functions Curves and regions Contour integration; Part Three: Analytic Functions: Foundations of the theory The maximum-modulus principle The Poisson integral and harmonic functions Meromorphic functions; Part Four: Analytic Functions Defined By Limiting Processes: Continuous convergence Normal families of meromorphic functions Power series Partial-fraction decomposition and the calculus of residues; Part Five: Special Functions: The exponential and trigonometric functions The logarithmic function and the general power function The Bernoulli numbers and the gamma function Index.
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