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Evaluation of Real Integrals -- 5.5 The Laplace Transform -- Chapter 6:
Harmonic Functions and Fourier Series -- 6.1 Harmonic Functions --
6.2 The Poisson Integral Formula -- 6.3 Further Connections to
Analytic Functions -- 6.4 Fourier Series -- Epilogue -- Local Uniform
Convergence -- Harnack's Theorem -- Results for Simply Connected
Domains -- The Riemann Mapping Theorem -- Appendix A: Sets and
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from Advanced Calculus -- The Supremum and Infimum -- Uniform
Continuity -- The Cauchy Product -- Leibniz's Rule -- References --
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Sommario/riassunto

A thorough introduction to the theory of complex functions emphasizing the beauty, power, and counterintuitive nature of the subject. Written with a reader-friendly approach, *Complex Analysis: A Modern First Course in Function Theory* features a self-contained, concise development of the fundamental principles of complex analysis. After laying groundwork on complex numbers and the calculus and geometric mapping properties of functions of a complex variable, the author uses power series as a unifying theme to define and study the many rich and occasionally surprising properties of analytic functions, including the Cauchy theory and residue theorem. The book concludes with a treatment of harmonic functions and an epilogue on the Riemann mapping theorem. Thoroughly classroom tested at multiple universities, *Complex Analysis: A Modern First Course in Function Theory* features: Plentiful exercises, both computational and theoretical, of varying levels of difficulty, including several that could be used for student projects. Numerous figures to illustrate geometric concepts and constructions used in proofs. Remarks at the conclusion of each section that place the main concepts in context, compare and contrast results with the calculus of real functions, and provide historical notes. Appendices on the basics of sets and functions and a handful of useful results from advanced calculus. Appropriate for students majoring in pure or applied mathematics as well as physics or engineering, *Complex Analysis: A Modern First Course in Function Theory* is an ideal textbook for a one-semester course in complex analysis for those with a strong foundation in multivariable calculus. The logically complete book also serves as a key reference for mathematicians, physicists, and engineers and is an excellent source for anyone interested in independently learning or reviewing the beautiful subject of complex analysis.
