

# Mathematical Analysis Tom Apostol

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the real and complex number systems some basic notions of set theory elements of point set theory the limit concept and continuity differentiation of functions of one real variable differentiation of functions of several variables applications of partial differentiation functions of bounded variation rectifiable curves and connected sets theory of riemann stieltjes integration multiple integrals and line integrals vector analysis infinite series and infinite products sequences of functions improper riemann stieltjes integrals fourier series and fourier integrals cauchy's theorem and the residue calculus

the purpose of this text is to teach the techniques needed to analyze algorithms students should have a general background in computer science and in mathematics through calculus the text is organized by analytical techniques and includes a systematic treatment of the mathematics needed for elementary and intermediate analysis as well as brief guides to more advanced techniques

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this book is first of all designed as a text for the course usually called theory of functions of a real variable this course is at present cus tomarily offered as a first or second year graduate course in united states universities although there are signs that this sort of analysis will soon penetrate upper division undergraduate curricula we have included every topic that we think essential for the training of analysts and we have also gone down a number of interesting bypaths we hope too that the book will be useful as a reference for mature mathematicians and other scientific workers hence we have presented very general and complete versions of a number of important theorems and constructions since these sophisticated versions may be difficult for the beginner we have given elementary avatars of all important theorems with appropriate suggestions for skipping we have given complete definitions explanations and proofs throughout so that the book should be usable for individual study as well as for a course text prerequisites for reading the book are the following the reader is assumed to know elementary analysis as the subject is set forth for example in tom m apostol s mathematical analysis addison wesley publ co reading mass 1957 or walter rudin s principles of mathematical analysis 2 ed mcgraw hill book co new york 1964

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appropriate for sophomore level courses in multivariable calculus a traditional and accessible calculus text with a strong conceptual and geometric slant that assumes a background in single variable calculus the text uses the language and notation of vectors and matrices to clarify issues in multivariable calculus it is designed to provide a greater challenge than the multivariable material typically found in the last four or five chapters of a three semester calculus text this challenge is balanced by clear and expansive writing and an interesting selection of material

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