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Preface

This book is intended as a text for a course in analysis, at the senior or first-year graduate level.

A working course in real analysis is an essential part of the preparation of any potential mathematician. For the first half of such a course, there is substantial agreement as to what the syllabus should be. Standard topics include sequences and series, the topology of metric spaces, and the Intermediate Value Theorem through the existence of a single real root. There are a number of excellent texts for such a course, including books by Apostol [A], Rudin [R], Goldberg [G], and Kreyszig [K], among others.

There is no such consensus agreement as to what the syllabus of the second half of such a course should be. Part of the problem is that there are simply too many topics for dealing in such a course for one to be able to treat them all within the confines of a single semester, at more than a superficial level.

In 1977, we have dealt with the problem by offering two independent second-semester courses in analysis. One of these deals with the derivatives and the Intermediate Value Theorem for functions of several variables, followed by a course in differential forms and a proof of Euler's theorem for manifolds in real vector spaces. The present book has resulted from my years of teaching the course. The other dealt with the Lebesgue integral in real vector spaces and its applications to Fourier analysis.

Preface

In addition, we assume the reader has completed a one-semester course in analysis that included a study of metric spaces and of functions of a single variable. We also assume the reader has some background in linear algebra, including vector spaces and linear transformations, matrix algebra, and determinants.

The first chapter of this book is devoted to reviewing the basic results from linear algebra and analysis that we shall need. Results that are truly basic are