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Anthony N. Michel, Charles J. Herget, Mathematics

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Written for graduate and advanced undergraduate students in engineering and science, this book focuses primarily on set theory, algebra, and analysis. Useful both for self-study and as a reference, the text provides the readers with appropriate mathematical background for advanced study in engineering or science, a basis for more advanced mathematical study, and an overview of modern mathematics.

The book is essentially divided into three parts: set theory (Chapter 1), algebra (Chapters 2-4), and analysis (Chapters 5-7). The first two chapters deal with the fundamental concepts of sets, functions, relations, and equivalence relations, and algebraic structures. Chapters 3 and 4 cover vector spaces and linear transformations, and finite-dimensional vector spaces and matrices. The last three chapters investigate metric spaces, normed spaces (Banach spaces) and inner product spaces (Hilbert spaces), and linear operators. A generous number of exercises have been integrated into the text and a section of references and notes is found at the end of each chapter. 1981 edition.

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