Schaums Outline of Matrix Operations

By Richard Bronson

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The text book was in excellent condition and arrived in a timely fashion. The guide starts with very basic operations such as matrix addition, subtraction, and dot products. It then moves on to methods of solution for finding the determinant, eigenvalues and eigenvectors, and the functions of a matrix. What I particularly like about this guide is that in its more advanced section it shows in plain language how to implement singular value decomposition, the QR algorithm to compute eigenvalues, vector norms, LU decomposition, and other more advanced methods of solution that are not mentioned in basic linear algebra texts and are overloaded with theory in more advanced
Preface

Perhaps no area of mathematics has changed as dramatically as matrices over the last 25 years.

Chapter 1 Basic Operations

MATRICES

A matrix is a rectangular array of elements arranged in horizontal rows and vertical columns, and usually enclosed in brackets. In this book, the elements of a matrix will almost always be numbers or functions of the variable \( t \). A matrix is real-valued (or, simply, real) if all its elements are real numbers or real-valued functions; it is complex-valued if at least one element is a complex number or a complex-valued function.