Schaums Outline of Matrix Operations

By Richard Bronson

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Reviews

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– Miss Marge Jerde
text book was in excellent condition and arrived in a timely fashion.Â 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.

Some of the problems in this book have software components in the companion Schaum’s Electronic Tutor. The Mathcad Engine, which drives the Electronic Tutor, allows every number Schaum's Outline of Theory and Problems of Signals and systems. Copyright © 1995 by The McGraw-Hill Companies, Inc. All rights reserved. Printed in the United States of America.

Review of Matrix Theory
A.1 Matrix Notation and Operations
A.2 Transpose and Inverse
A.3 Linear Independence and Rank
A.4 Determinants
A.5 Eigenvalues and Eigenvectors
A.6 Diagonalization and Similarity Transformation
A.7 Functions of a Matrix
A.8 Differentiation and Integration of Matrices

Appendix B. Properties of Linear Time-Invariant Systems and Various Transforms
B.1 Continuous-Time LTI Systems
B.2 The Laplace Transform
B.3 The Fourier Transform

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