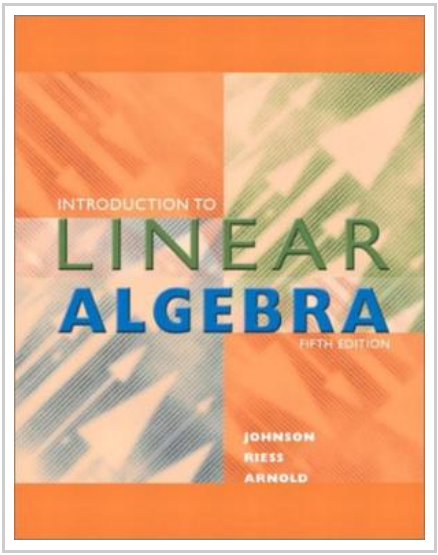

Introduction to Linear Algebra (5th Edition)

By Johnson, Lee W.; Riess, R. Dean; Arnold, Jimmy T.

Pearson, 2001. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Matrices and Systems of Linear Equations. Introduction to Matrices and Systems of Linear Equations. Echelon Form and Gauss-Jordan Elimination. Consistent Systems of Linear Equations. Applications (Optional). Matrix Operations. Algebraic Properties of Matrix Operations. Linear Independence and Nonsingular Matrices. Data Fitting, Numerical Integration, and Numerical Differentiation (Optional). Matrix Inverses and Their Properties. 2. Vectors in 2-Space and 3-Space. Vectors in the Plane. Vectors in Space. The Dot Product and the Cross Product. Lines and Planes in Space. 3. The Vector Space Rn. Introduction. Vector Space Properties of Rn. Examples of Subspaces. Bases for Subspaces. Dimension. Orthogonal Bases for Subspaces. Linear Transformations from Rn to Rm. Least-Squares Solutions to Inconsistent Systems, with Applications to Data Fitting. Theory and Practice of Least Squares. 4. The Eigenvalue Problem. The Eigenvalue Problem for (2 x 2) Matrices. Determinants and the Eigenvalue Problem. Elementary Operations and Determinants (Optional). Eigenvalues and the Characteristic Polynomial. Eigenvectors and Eigenspaces. Complex Eigenvalues and Eigenvectors. Similarity Transformations and Diagonalization. Difference Equations; Markov Chains, Systems of Differential Equations (Optional). 5. Vector Spaces and Linear Transformations. Introduction. Vector Spaces. Subspaces. Linear Independence, Bases, and Coordinates. Dimension....

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