



Elementary Linear Algebra (2nd Edition)

By Lawrence E. Spence, Arnold J. Insel, Stephen H. Friedberg

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Ideal as a reference or quick review of the fundamentals of linear algebra, this book offers a *matrix-oriented approach*--with more emphasis on Euclidean n -space, problem solving, and applications, and less emphasis on abstract vector spaces. It features a variety of applications, boxed statements of important results, and a large number of numbered and unnumbered examples. Matrices, Vectors, and Systems of Linear Equations. Matrices and Linear Transformations. Determinants. Subspaces and Their Properties. Eigenvalues, Eigenvectors, and Diagonalization. Orthogonality. Vector Spaces. Complex Numbers. A professional reference for computer scientists, statisticians, and some engineers.

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Editorial Review

From the Back Cover

Elementary Linear Algebra, 2/e — Lawrence Spence, Arnold Insel, and Stephen Friedberg

Embracing the recommendations of the *Linear Algebra Curriculum Study Group*, the authors have written a text that students will find both accessible and enlightening. Written for a matrix-oriented course, students from a variety of disciplines can expect a greater understanding of the concepts of linear algebra. Starting with matrices, vectors, and systems of linear equations, the authors move towards more advanced material, including linear independence, subspaces, and bases. The authors also encourage the use of technology, either computer software (MATLAB) or super-calculators, freeing students from tedious computations so they are better able to focus on the conceptual understanding of linear algebra. Lastly, students will find a variety of applications to engage their interest, demonstrated via economics, traffic flow, anthropology, Google searches, computer graphics, or music to name a few. By leveraging technology and incorporating engaging examples and numerous practice problems and exercises, this text best serves the needs of students attempting to master linear algebra.

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