ELEMENTARY LINEAR ALGEBRA

(UNDERGRADUATE TEXT)

About the Book: The book is intended to serve the student as a map through the introductory linear algebra course. To that end, it delivers an elementary treatment of linear algebra - suitable for a beginner course for undergraduate students. Our journey shall take us through vectors, matrices and their connection to systems of linear equations, Gauss-Jordan elimination, eigenvalues, and diagonalization. Students embarking on a linear algebra course should have a comprehensive knowledge of matrices and vectors. The examples and exercises have been cautiously curated to maintain a symmetry between theory and practice.

Over the course of five chapters, the book traverses the fundamental material canvassed by most elementary linear algebra courses like vectors, matrices, system of linear equations, eigenvalues, and diagonalization. The gears change in Chapter 5 as students reach the introduction of vector spaces and linear transformations. To supplement this core, we have also included six appendices devoted to brace and determinant of a matrix, applications of linear equations, LU decomposition, and finally, computer graphics. The aim is to present the student with the essentials of linear algebra in the most lucid and crystalline fashion.

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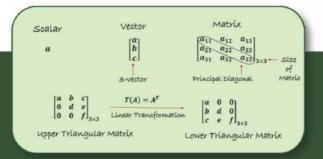
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