

Introduction to Linear Algebra with Applications

By Jim DeFranza, Daniel Gagliardi

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Over the last few decades, linear algebra has become more relevant than ever. Applications have increased not only in quantity but also in diversity, with linear systems being used to solve problems in chemistry, engineering, economics, nutrition, urban planning, and more. DeFranza and Gagliardi introduce students to the topic in a clear, engaging, and easy-to-follow manner. Topics are developed fully before moving on to the next through a series of natural connections. The result is a solid introduction to linear algebra for undergraduates' first course.

Outstanding features include:

Early coverage of vector spaces, providing the abstract theory necessary to understand applications

Exercises that range from routine to more challenging, extending the concepts and techniques by asking students to construct complete arguments

Numerous examples designed to develop intuition and prepare readers to think conceptually about topics as they are introduced

Fact summaries to end each chapter that use nontechnical language to recapitulate details and formulas

Not-for-sale instructor resource material available to college and university faculty only; contact publisher directly.

Brief Table of Contents

1. Systems of Linear Equations and Matrices 2. Linear Combinations and Linear Independence 3. Vector Spaces 4. Linear Transformations 5. Eigenvalues and Eigenvectors 6. Inner Product Spaces

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