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Introduction To Linear Algebra For

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A Gentle Introduction to Linear Algebra

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concepts in linear algebra are abstract; indeed, linear algebra introduces students to formal deductive analysis. Formulating proofs and logical reasoning are skills that require nurturing, and it has been our aim to provide this.

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Table of Contents for Introduction to Linear Algebra (5th edition 2016) 1
Introduction to Vectors 1.1 Vectors and Linear Combinations; 1.2 Lengths and Dot Products; 1.3 Matrices; 2 Solving Linear Equations 2.1 Vectors and Linear Equations; 2.2 The Idea of Elimination; 2.3 Elimination Using Matrices

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Most students taking a course in linear algebra will have completed courses in differential and integral calculus, and maybe also multivariate calculus, and will typically be second-year students in university. This level of mathematical maturity is expected, however there is little or no requirement to know calculus itself to use this book successfully.

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This is a basic subject on matrix theory and linear algebra. Emphasis is given to topics that will be useful in other disciplines, including systems of equations, vector spaces, determinants, eigenvalues, similarity, and positive definite matrices.

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