



Computational and Algorithmic Linear Algebra and n-Dimensional Geometry

Katta G Murty

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This undergraduate textbook on Linear Algebra and n -Dimensional Geometry, in a self-teaching style, is invaluable for sophomore level undergraduates in mathematics, engineering, business, and the sciences. These are classical subjects on which there are many mathematics books in theorem-proof style, but this unique volume has its focus on developing the mathematical modeling as well as computational and algorithmic skills in students at this level. The explanations in this book are detailed, lucid, and supported with numerous well-constructed examples to capture the interest and encourage the student to master the material. **Contents:**

- Systems of Simultaneous Linear Equations
- Matrices, Matrix Arithmetic, Determinants
- n -Dimensional Geometry
- Numerical Linear Algebra
- Quadratic Forms, Positive, Negative (Semi) Definiteness
- Eigen Values, Eigen Vectors, and Matrix Diagonalization
- Software Systems for Linear Algebra Problems

Readership: Undergraduate students in linear algebra and n -dimensional geometry.

Key Features:

The author is well known and he has several other popular textbooks in applied mathematics and optimization, that are widely adopted all over the world

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