

# Elementary Linear Algebra 9th Edition Kolman

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$$a_1x_1 + \dots + a_nx_n = b$$
 ...  
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includes as special cases: The complex numbers, quaternions, exterior algebras, ...

The Act of Counting

Main Idea of Geometric Algebra

Pseudoscalars

Dual of a Multivector

Some Housekeeping

Advantage: Linear Independence

Advantage: Orthogonal Complement of a Subspace of  $R$ . without Matrix Algebra

Advantage: Determinants are Fundamental

Manifolds and Tangent Spaces

Advantage: Multivector Integration (Directed Integrals)

Fundamental Theorem of Geometric Calculus

(Bonus) Mathematical Party Tricks

When Should Geometric Algebra be Taught?

The Most Important Calculation

Recommended Textbooks for Undergraduates?

References

Advantage: Subspace Membership Test With Blades

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Elementary Linear Algebra

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Subspace Criteria

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