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$$a_1x_1 + \cdots + a_nx_n = b \dots$$

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**Linear Algebra**, by Hefferon ((0:04:35) One.I.1 Solving **Linear**, ...

Introduction to Linear Algebra by Hefferon

One.I.1 Solving Linear Systems, Part One

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One.I.2 Describing Solution Sets, Part One

One.I.2 Describing Solution Sets, Part Two

One.I.3 General = Particular + Homogeneous

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One.II.2 Vector Length and Angle Measure

One.III.1 Gauss-Jordan Elimination

One.III.2 The Linear Combination Lemma

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Two.I.1 Vector Spaces, Part Two

Two.I.2 Subspaces, Part One

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Three.III.1 Representing Linear Maps, Part One.

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Null space

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Glynn-Adey 13,340 views 1 year ago 46 minutes - Geometric **algebra**, is an extension of  $R^n$  that

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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