UTAustinX UT.5.05x
Linear Algebra - Foundations to Frontiers

Help

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7.1.2 Outline

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7.1.2 Outline

Opening Remarks

- 7.1.1. Of Lines and Intersections
- 7.1.2. Outline
- 7.1.3. What You Will Learn

When Gaussian Elimination Breaks Down

- 7.2.1. When Gaussian Elimination Works
- 7.2.2. The Problem
- 7.2.3. Permutations
- 7.2.4. Gaussian Elimination with Row Swapping (LU factorization with Partial Pivoting)
- 7.2.5. When Gaussian Elimination Fails Altogether

The Inverse Matrix

- 7.3.1. Inverse Functions in 1D
- 7.3.2. Back to Linear Transformations
- 7.3.3. Simple Examples
- 7.3.4. More Advanced (but Still Simple) Examples
- 7.3.5. Properties

Enrichment

- 7.4.1. Blocked Algorithms for LU with Partial Pivoting
- 7.4.2. Library Routines for LU with Partial Pivoting

. Wrap Up

- 7.4.1. Homework
- 7.4.2. Summary

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