

Ū <u>Help</u>

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Next >

Course <u>Progress</u> **Discussion Syllabus** <u>Outline</u> <u>laff routines</u> **Community** <u>Dates</u>

★ Course / Week 8: More on Matrix Inversion / 8.1 Opening Remarks

(



Previous

☐ Bookmark this page

8.1.2 Outline

Opening Remarks

- 8.1.1. When LU Factorization with Row Pivoting Fails
- 8.1.2. Outline
- 8.1.3. What You Will Learn

Gauss-Jordan Elimination

- 8.2.1. Solving Ax = b via Gauss-Jordan Elimination
- 8.2.2. Solving Ax = b via Gauss-Jordan Elimination: Gauss Transforms
- 8.2.3. Solving Ax = b via Gauss-Jordan Elimination: Multiple Right-Hand Sides
- 8.2.4. Computing A⁻¹ via Gauss-Jordan Elimination
- 8.2.5. Computing A⁻¹ via Gauss-Jordan Elimination, Alternative
- 8.2.6. Pivoting
- 8.2.7. Cost of Matrix Inversion

(Almost) Never, Ever Invert a Matrix

- 8.3.1. Solving Ax = b
- 8.3.2. But.

- 8.4.1. Symmetric Positive Definite Matrices
- 8.4.2. Solving Ax = b when A is Symmetric Positive Definite
- 8.4.3. Other Factorizations
- 8.4.4. Welcome to the Frontier

Wrap Up

- 8.5.1. Homework
- 8.5.2. Summary

⊞ Calculator

Previous

Next >

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