

LU Factorization Example

- Thus, $M_1[A|b] = \left(\begin{array}{cccc|c} 2 & 1 & 1 & 3 & 7 \\ 0 & 2 & -2 & 1 & -3 \\ 0 & 2 & 1 & 8 & 10 \\ 0 & -2 & -1 & 4 & 8 \end{array} \right)$

- In the next step of Gaussian Elimination, we pivot on a_{22} to get:

$$\left(\begin{array}{cccc|c} 2 & 1 & 1 & 3 & 7 \\ 0 & 2 & -2 & 1 & -3 \\ 0 & 0 & 3 & 7 & 13 \\ 0 & 0 & -3 & 5 & 5 \end{array} \right)$$

- We can view this as multiplying $M_1[A|b]$ by

$$M_2 = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & -1 & 1 & 0 \\ 0 & 1 & 0 & 1 \end{bmatrix}$$

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Table of Contents 7 Gaussian Elimination And Lu Factorization

1. Understanding the eBook 7 Gaussian Elimination And Lu Factorization
 - The Rise of Digital Reading 7 Gaussian Elimination And Lu Factorization
 - Advantages of eBooks Over Traditional Books
2. Identifying 7 Gaussian Elimination And Lu Factorization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 7 Gaussian Elimination And Lu Factorization
 - User-Friendly Interface
4. Exploring eBook Recommendations from 7 Gaussian Elimination And Lu Factorization
 - Personalized Recommendations
 - 7 Gaussian Elimination And Lu Factorization User Reviews and Ratings
 - 7 Gaussian Elimination And Lu Factorization and Bestseller Lists
5. Accessing 7 Gaussian Elimination And Lu Factorization Free and Paid eBooks

- 7 Gaussian Elimination And Lu Factorization Public Domain eBooks
 - 7 Gaussian Elimination And Lu Factorization eBook Subscription Services
 - 7 Gaussian Elimination And Lu Factorization Budget-Friendly Options
6. Navigating 7 Gaussian Elimination And Lu Factorization eBook Formats
- ePub, PDF, MOBI, and More
 - 7 Gaussian Elimination And Lu Factorization Compatibility with Devices
 - 7 Gaussian Elimination And Lu Factorization Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 7 Gaussian Elimination And Lu Factorization
 - Highlighting and Note-Taking 7 Gaussian Elimination And Lu Factorization
 - Interactive Elements 7 Gaussian Elimination And Lu Factorization
8. Staying Engaged with 7 Gaussian Elimination And Lu Factorization
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 7 Gaussian Elimination And Lu Factorization
9. Balancing eBooks and Physical Books 7 Gaussian Elimination And Lu Factorization
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 7 Gaussian Elimination And Lu Factorization
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 7 Gaussian Elimination And Lu Factorization
- Setting Reading Goals 7 Gaussian Elimination And Lu Factorization
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 7 Gaussian Elimination And Lu Factorization
- Fact-Checking eBook Content of 7 Gaussian Elimination And Lu Factorization
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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