

$$\left[\begin{array}{ccc|c} 2 & 3 & -2 & 6 \\ 0 & 0 & 3 & -6 \\ 1 & 0 & 2 & 3 \end{array} \right] \xrightarrow{R_1 \leftrightarrow R_3} \left[\begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 0 & 0 & 3 & -6 \\ 2 & 3 & -2 & 6 \end{array} \right] \xrightarrow{\frac{1}{3}R_2} \left[\begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 0 & 0 & 1 & -2 \\ 2 & 3 & -2 & 6 \end{array} \right] \xrightarrow{R_2 \leftrightarrow R_3}$$

$$\left[\begin{array}{ccc} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right]$$

Example

Solve for \vec{x}

$$\left[\begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 2 & 3 & -2 & 6 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{R_1 + R_2} \left[\begin{array}{ccc|c} 1 & 0 & 2 & 3 \\ 3 & 3 & 0 & 9 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{-2R_3 + R_1}$$

$$\left[\begin{array}{ccc|c} 1 & 0 & 0 & 7 \\ 3 & 3 & 0 & 9 \\ 0 & 0 & 1 & -2 \end{array} \right] \xrightarrow{\frac{1}{3}R_2} \left[\begin{array}{ccc|c} 1 & 0 & 0 & 7 \\ 1 & 1 & 0 & 3 \\ 0 & 0 & 1 & -2 \end{array} \right]$$

$$\begin{bmatrix} 2 & 3 & -2 \\ 0 & 0 & 3 \\ 1 & 0 & 2 \end{bmatrix} \begin{Bmatrix} x_1 \\ x_2 \\ x_3 \end{Bmatrix} = \begin{Bmatrix} 6 \\ -6 \\ 3 \end{Bmatrix}$$



Basic Linear Algebra

Lei Huang



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Table of Contents Basic Linear Algebra

1. Understanding the eBook Basic Linear Algebra
 - The Rise of Digital Reading Basic Linear Algebra
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Linear Algebra
 - 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 Basic Linear Algebra
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Linear Algebra
 - Personalized Recommendations
 - Basic Linear Algebra User Reviews and Ratings
 - Basic Linear Algebra and Bestseller Lists
5. Accessing Basic Linear Algebra Free and Paid eBooks
 - Basic Linear Algebra Public Domain eBooks
 - Basic Linear Algebra eBook Subscription Services
 - Basic Linear Algebra Budget-Friendly Options

6. Navigating Basic Linear Algebra eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Linear Algebra Compatibility with Devices
 - Basic Linear Algebra Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Linear Algebra
 - Highlighting and Note-Taking Basic Linear Algebra
 - Interactive Elements Basic Linear Algebra
8. Staying Engaged with Basic Linear Algebra
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Linear Algebra
9. Balancing eBooks and Physical Books Basic Linear Algebra
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Linear Algebra
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Linear Algebra
 - Setting Reading Goals Basic Linear Algebra
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Linear Algebra
 - Fact-Checking eBook Content of Basic Linear Algebra
 - 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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