

5) Skew Symmetric part of the matrix $\begin{bmatrix} 1 & 1 & 3 \\ -1 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix}$

Skew-Symmetric = $\frac{1}{2}(A+A^T) - \frac{1}{2}(A-A^T)$

$$A = \begin{bmatrix} 1 & 1 & 3 \\ -1 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} \quad A^T = \begin{bmatrix} 1 & -1 & 3 \\ 1 & 1 & -1 \\ 2 & 1 & 2 \end{bmatrix}$$

$$A+A^T = \begin{bmatrix} 2 & 0 & 5 \\ 0 & 2 & 0 \\ 5 & 0 & 4 \end{bmatrix} \quad A-A^T = \begin{bmatrix} 0 & 2 & -1 \\ -2 & 0 & 2 \\ 1 & -2 & 0 \end{bmatrix}$$

$$\text{Skew Symmetric} = \frac{1}{2} \begin{bmatrix} 2 & 0 & 5 \\ 0 & 2 & 0 \\ 5 & 0 & 4 \end{bmatrix} - \frac{1}{2} \begin{bmatrix} 0 & 2 & -1 \\ -2 & 0 & 2 \\ 1 & -2 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 0 & 5/2 \\ 0 & 1 & 0 \\ 5/2 & 0 & 2 \end{bmatrix} + \begin{bmatrix} 0 & 1 & -1/2 \\ -1 & 0 & 1 \\ 1/2 & -1 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 1 & 2 \\ -1 & -1 & 1 \\ 3 & -1 & 2 \end{bmatrix}$$

7)

$$A = \begin{bmatrix} 3 & a & b \\ -2 & 2 & 4 \\ 7 & 4 & 5 \end{bmatrix} \quad A^T = \begin{bmatrix} 3 & -2 & 7 \\ 0 & 2 & 4 \\ 5 & 4 & 5 \end{bmatrix}$$

Symmetric matrix = $A^T = A$

$$\therefore a = -2$$

$$b = 7$$

Theory Problems Of Matrices

Jin-Ying Zhang



Theory Problems Of Matrices:

Decoding **Theory Problems Of Matrices**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Theory Problems Of Matrices

1. Understanding the eBook Theory Problems Of Matrices
 - The Rise of Digital Reading Theory Problems Of Matrices
 - Advantages of eBooks Over Traditional Books
2. Identifying Theory Problems Of Matrices
 - 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 Theory Problems Of Matrices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Theory Problems Of Matrices
 - Personalized Recommendations
 - Theory Problems Of Matrices User Reviews and Ratings
 - Theory Problems Of Matrices and Bestseller Lists

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