

§3. MA TRẬN NGHỊCH ĐẢO

Trong bài này, bạn sẽ học

- Khái niệm ma trận khả nghịch và ma trận đảo của một ma trận vuông;
- Các tính chất ma trận khả nghịch;
- Điều kiện cần và đủ để một ma trận vuông khả nghịch;
- Hai cách cơ bản tìm ma trận đảo của một ma trận khả nghịch;
- Ứng dụng ma trận đảo để giải phương trình ma trận và hệ phương trình tuyến tính.

3.1. Định nghĩa

Ma trận vuông $A = [a_{ij}]_{n \times n}$ gọi là *khả nghịch* nếu có ma trận $B = [b_{ij}]_{n \times n}$ sao cho

$$AB = I_n = BA.$$

Khi đó B gọi là *ma trận nghịch đảo* hay *ma trận đảo* của A , ký hiệu là A^{-1} .

Vậy A khả nghịch khi và chỉ khi tồn tại A^{-1} và $AA^{-1} = I_n = A^{-1}A$.

Ví dụ 1 Với $A = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$, $B = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix}$. Ta có

$$AB = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = BA.$$

Vậy A khả nghịch và $A^{-1} = \begin{pmatrix} -3 & 2 \\ 2 & -1 \end{pmatrix} = B$; B khả nghịch và $B^{-1} = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix} = A$.

Lưu ý Với $A = [a_{ij}]_{n \times n}$, $B = [b_{ij}]_{n \times n}$: $AB = I_n$ khi và chỉ khi $BA = I_n$.

3.2. Tính chất

- Ma trận đảo của ma trận A (nếu có) thì duy nhất và $(A^{-1})^{-1} = A$
- Nếu A khả nghịch thì A^T cũng khả nghịch và $(A^T)^{-1} = (A^{-1})^T$
- Nếu $A = [a_{ij}]_{n \times n}$, $B = [b_{ij}]_{n \times n}$, $C = [c_{ij}]_{n \times n}$ khả nghịch thì tích AB , ABC cũng khả nghịch và $(AB)^{-1} = B^{-1}A^{-1}$; $(ABC)^{-1} = C^{-1}B^{-1}A^{-1}$

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Table of Contents Read Ndima Ma Ch1 3

1. Understanding the eBook Read Ndima Ma Ch1 3
 - The Rise of Digital Reading Read Ndima Ma Ch1 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Read Ndima Ma Ch1 3
 - 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 Read Ndima Ma Ch1 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Read Ndima Ma Ch1 3
 - Personalized Recommendations
 - Read Ndima Ma Ch1 3 User Reviews and Ratings
 - Read Ndima Ma Ch1 3 and Bestseller Lists
5. Accessing Read Ndima Ma Ch1 3 Free and Paid eBooks
 - Read Ndima Ma Ch1 3 Public Domain eBooks

- Read Ndima Ma Ch1 3 eBook Subscription Services
- Read Ndima Ma Ch1 3 Budget-Friendly Options

6. Navigating Read Ndima Ma Ch1 3 eBook Formats

- ePub, PDF, MOBI, and More
- Read Ndima Ma Ch1 3 Compatibility with Devices
- Read Ndima Ma Ch1 3 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Read Ndima Ma Ch1 3
- Highlighting and Note-Taking Read Ndima Ma Ch1 3
- Interactive Elements Read Ndima Ma Ch1 3

8. Staying Engaged with Read Ndima Ma Ch1 3

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Read Ndima Ma Ch1 3

9. Balancing eBooks and Physical Books Read Ndima Ma Ch1 3

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Read Ndima Ma Ch1 3

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Read Ndima Ma Ch1 3

- Setting Reading Goals Read Ndima Ma Ch1 3
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Read Ndima Ma Ch1 3

- Fact-Checking eBook Content of Read Ndima Ma Ch1 3
- 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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