

Unit

1

MATRICES AND EIGEN VALUE PROBLEMS

§ 1.1. INTRODUCTION

The word 'Matrix' was used first of all by J. J. Sylvester in 1850. Then Arthur Cayley developed the principles of matrices in 1858.

§ 1.1. (A) MATRIX (SOME ELEMENTARY CONCEPTS)

Definition. A system of mn numbers (real or complex) arranged in a rectangular array of m rows and n columns is called a matrix of order $m \times n$. It is also called $m \times n$ matrix.

Matrices are usually denoted by capital letters A, B, C, X, Y, Z, \dots . If A is a $m \times n$ matrix, then it is represented in square brackets as follows :

$$A = \begin{bmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \dots & \dots & \dots & \dots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{bmatrix}_{m \times n}$$

Order of a matrix. If there are m rows and n columns in a matrix, then it is called a matrix of order $m \times n$; first factor i.e., m denotes the number of rows and second factor i.e., n denotes the number of columns.

It should be noted that it is not necessary that the number of rows be equal to number of columns, in the matrix, e.g.,

$$\begin{bmatrix} 3 & 5 & 7 \\ 9 & 10 & 11 \end{bmatrix}, [7 \ 8 \ 9], \begin{bmatrix} 1 \\ 2 \end{bmatrix}$$

are matrices of order 2×3 , 1×3 , 2×1 respectively.

Elements of a matrix. $a_{11}, a_{12}, \dots, a_{mn}$ are called the elements of the matrix, a_{ij} is called the general element of the matrix and it is situated in i^{th} row and j^{th} column. First lower suffix i in a_{ij} always represents row and second lower suffix j represents column e.g.,

$$\text{In } \begin{bmatrix} 3 & -2 & 5 \\ 4 & 7 & 9 \end{bmatrix}, a_{11} = 3, a_{12} = -2, a_{23} = 9 \text{ etc.}$$

Dc Agrawal Mathematics 1

Yicheng Fang



Dc Agrawal Mathematics 1:

The book delves into Dc Agrawal Mathematics 1. Dc Agrawal Mathematics 1 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dc Agrawal Mathematics 1, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Dc Agrawal Mathematics 1
- Chapter 2: Essential Elements of Dc Agrawal Mathematics 1
- Chapter 3: Dc Agrawal Mathematics 1 in Everyday Life
- Chapter 4: Dc Agrawal Mathematics 1 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Dc Agrawal Mathematics 1. This chapter will explore what Dc Agrawal Mathematics 1 is, why Dc Agrawal Mathematics 1 is vital, and how to effectively learn about Dc Agrawal Mathematics 1.
3. In chapter 2, this book will delve into the foundational concepts of Dc Agrawal Mathematics 1. This chapter will elucidate the essential principles that must be understood to grasp Dc Agrawal Mathematics 1 in its entirety.
4. In chapter 3, the author will examine the practical applications of Dc Agrawal Mathematics 1 in daily life. The third chapter will showcase real-world examples of how Dc Agrawal Mathematics 1 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Dc Agrawal Mathematics 1 in specific contexts. The fourth chapter will explore how Dc Agrawal Mathematics 1 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Dc Agrawal Mathematics 1. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Dc Agrawal Mathematics 1.

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Table of Contents Dc Agrawal Mathematics 1

1. Understanding the eBook Dc Agrawal Mathematics 1
 - The Rise of Digital Reading Dc Agrawal Mathematics 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Dc Agrawal Mathematics 1
 - 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 Dc Agrawal Mathematics 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dc Agrawal Mathematics 1
 - Personalized Recommendations
 - Dc Agrawal Mathematics 1 User Reviews and Ratings
 - Dc Agrawal Mathematics 1 and Bestseller Lists
5. Accessing Dc Agrawal Mathematics 1 Free and Paid eBooks
 - Dc Agrawal Mathematics 1 Public Domain eBooks
 - Dc Agrawal Mathematics 1 eBook Subscription Services
 - Dc Agrawal Mathematics 1 Budget-Friendly Options
6. Navigating Dc Agrawal Mathematics 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Dc Agrawal Mathematics 1 Compatibility with Devices
 - Dc Agrawal Mathematics 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dc Agrawal Mathematics 1
 - Highlighting and Note-Taking Dc Agrawal Mathematics 1
 - Interactive Elements Dc Agrawal Mathematics 1
8. Staying Engaged with Dc Agrawal Mathematics 1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dc Agrawal Mathematics 1
9. Balancing eBooks and Physical Books Dc Agrawal Mathematics 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dc Agrawal Mathematics 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Dc Agrawal Mathematics 1
- Setting Reading Goals Dc Agrawal Mathematics 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dc Agrawal Mathematics 1
- Fact-Checking eBook Content of Dc Agrawal Mathematics 1
 - 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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