

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.,

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

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Statistical Mechanics Bipin Kumar Agarwal, 2007 This Book Gives A Clear And Logical Exposition Of The Basic Method Of Ensembles In Statistical Mechanics As Developed By J W Gibbs Beginning With The Liouville Theorem A Brief But Useful Introduction To The Classical Statistical Mechanics Is Provided Then The Quantum Picture Is Outlined And Basic Postulate Of Quantum Statistical Mechanics Are Stated The Discussion Of The Symmetry Of Wave Function And Its Effect On Counting Is Given In Detail The Relation Between Statistical Mechanics And Thermodynamics Is Worked Out And The Gibbs Paradox Is Discussed In A Lucid Way The Concept Of Entropy Is Related To The Information Theory Various Ensembles Are Constructed And Used To Derive The Bose Einstein And Fermi Dirac Ideal Gases Topics Like Liquid He Electrons In Metals And White Dwarfs Are Given Adequate Coverage Quantum Hall Effect Random Walk And Fourier Analysis Of A Random Fluctuation Are Devoted Sufficient Space To Make It A Useful And Fascinating Book The Book Concludes With A Discussion Of The Sling Model And A Modern Treatment Of The Critical Phenomena Problems At The End Of Each Chapter Widen The Area Covered And Also Help To Deepen The Understanding Of The Material Given This Book Is Written To Introduce The Subject To Advanced Undergraduates In Physics And Chemistry Or To Graduates In Engineering Classes The Present Edition Contains New Material Including A Chapter On Irreversible Thermodynamics And Sections Dealing With Density Matrix And Superconductivity

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Table of Contents M3 Dc Agrawal

1. Understanding the eBook M3 Dc Agrawal
 - The Rise of Digital Reading M3 Dc Agrawal
 - Advantages of eBooks Over Traditional Books
2. Identifying M3 Dc Agrawal
 - 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 M3 Dc Agrawal
 - User-Friendly Interface
4. Exploring eBook Recommendations from M3 Dc Agrawal
 - Personalized Recommendations

- M3 Dc Agrawal User Reviews and Ratings
- M3 Dc Agrawal and Bestseller Lists
- 5. Accessing M3 Dc Agrawal Free and Paid eBooks
 - M3 Dc Agrawal Public Domain eBooks
 - M3 Dc Agrawal eBook Subscription Services
 - M3 Dc Agrawal Budget-Friendly Options
- 6. Navigating M3 Dc Agrawal eBook Formats
 - ePub, PDF, MOBI, and More
 - M3 Dc Agrawal Compatibility with Devices
 - M3 Dc Agrawal Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of M3 Dc Agrawal
 - Highlighting and Note-Taking M3 Dc Agrawal
 - Interactive Elements M3 Dc Agrawal
- 8. Staying Engaged with M3 Dc Agrawal
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers M3 Dc Agrawal
- 9. Balancing eBooks and Physical Books M3 Dc Agrawal
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection M3 Dc Agrawal
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine M3 Dc Agrawal
 - Setting Reading Goals M3 Dc Agrawal
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of M3 Dc Agrawal
 - Fact-Checking eBook Content of M3 Dc Agrawal

- 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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