MATRICES

→ Cayley Hamilton theorem.

→ Eigen values and Eigen vectors

→ Diagonalisation.

→ Reducing Quadratic form into canonical form.

Matrix: A rectangular array of elements with m rows & n columns.

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

If $m = n \Rightarrow$ Square matrix.

Types of Matrices:

1] Triangular — upper, lower

2] Identity

3] Symmetric

4] Skew symmetric

5] Diagonal

6] Transpose

7] Null

8] Singular

9] Non Singular.

Upper = $\begin{bmatrix} 1 & 2 & 0 \\ 0 & 4 & 5 \\ 0 & 0 & 6 \end{bmatrix}$

Diagonal = $\begin{bmatrix} 7 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 4 \end{bmatrix}$

Lower = $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 4 & 5 \\ 0 & 0 & 6 \end{bmatrix}$

Transpose = Inter change rows & columns

Engineering Mathematics 1 Notes Matrices

Florentin Smarandache,Mohamed Abdel-Basset,Maikel Leyva Vazquez

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Neutrosophic Sets and Systems, Vol. 88, 2025 Florentin Smarandache,Mohamed Abdel-Basset,Maikel Leyva Vazquez, This volume of Neutrosophic Sets and Systems presents a collection of papers focused on the advanced studies and applications of neutrosophy neutrosophic set neutrosophic logic and neutrosophic statistics The research explores how these concepts generalize classical logic and fuzzy sets by incorporating a degree of indeterminacy The articles within this issue apply these theories to a wide range of fields including digital media art design decolonial thought rural legal aid education informatization public landscape design and cross border digital marketing The works demonstrate the use of neutrosophic frameworks to model complex uncertain and contradictory data offering new methods for decision making and problem solving in various domains Recent Developments of Fuzzy Matrix Theory and Applications Madhumangal Pal,2024-05-27 This book provides a comprehensive overview of the development of fuzzy matrix theory from its inception to its current state It covers various types of fuzzy matrices such as intuitionistic fuzzy matrices interval valued fuzzy matrices interval valued intuitionistic fuzzy matrices bipolar fuzzy matrices picture fuzzy matrices neutrosophic fuzzy matrices m polar fuzzy matrices and similar one Drawing primarily from the author s research work and collaborations the book offers a state of the art discussion of these topics Theoretical concepts are illustrated with examples for clarity accompanied by figures depicting fuzzy matrices and their variations Suitable for both beginners and expert researchers the book offers a wealth of material and includes numerous open problems at the end of almost all chapters to encourage further exploration and investigation

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