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

Michal Rosen-Zvi

Engineering Mathematics 1 Notes Matrices :

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