

# MATRICES

- Cayley Hamilton theorem.
- Eigen values and Eigen vectors
- Diagonalisation.
- Reducing Quadratic form into cononical form.

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

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

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

Transpose = Inter change row & columns

# Engineering Mathematics 1 Notes Matrices

**Huangqi Zhang**



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