

# 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     | $\begin{cases} \text{upper} \\ \text{lower} \end{cases}$ | 6] Transpose     |
| 2] Identity       |  | 7] Null          |
| 3] Symmetric      |  | 8] Singular      |
| 4] skew symmetric |  | 9] Non singular. |
| 5] Diagonal       |  |                  |

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

Transpose = Inter change row & columns

# Engineering Mathematics 1 Notes Matrices

**Lei Huang**



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