

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

Xiaolong Qi



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