④ Adjoint and Inverse of Matrix:

→ For a square matrix, adjoint ; $\boxed{adj(A) = (\text{Co-factor matrix})^T}$

→ For a 2×2 matrix:

$$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \Rightarrow Adj(A) = \begin{bmatrix} a_{22} & -a_{12} \\ -a_{21} & a_{11} \end{bmatrix}$$

sign change

→ For n×n matrix A:

$$\boxed{|adj\, A|_{n\times n} = |A|^{n-1}} \rightarrow \boxed{|adj \cdot adj \cdot adj \ldots \text{ 5 times } A| = |A|^{(n-1)^5}}$$

Shortcut for 3×3 matrix

$$A = \begin{array}{c} \begin{array}{ccc} \text{First (F)} & \text{Middle (M)} & \text{Last (L)} \end{array} \\ \begin{bmatrix} -1 & -2 & -3 \\ 1 & 1 & -2 \\ 2 & 4 & 3 \end{bmatrix} \end{array}$$

$$\begin{array}{c} M \\ L \\ F \\ M \end{array} \begin{bmatrix} 1 & 4 & -2 & 1 \\ -2 & 3 & -3 & -2 \\ 1 & 2 & -1 & 1 \\ 1 & 4 & -2 & 1 \end{bmatrix} \Rightarrow adj A = \begin{bmatrix} 11 & -6 & 7 \\ -7 & 3 & -5 \\ 2 & 0 & 1 \end{bmatrix}$$

• Inverse - $\boxed{A^{-1} = \frac{1}{|A|} \cdot adj(A)}$ ⇒ $\boxed{A \cdot adj(A) = |A| \cdot I}$ → Inverse is defined only for non-singular matrix.

→ $\boxed{|A^{-1}| = \frac{1}{|A|}}$ → $\boxed{(ABC)^{-1} = C^{-1} \cdot B^{-1} \cdot A^{-1}}$

⑤ Types of Square Matrices:

→ Diagonal matrix ; $a_{ij} = \begin{cases} \text{any value} & ; i=j \\ 0 & ; i\neq j \end{cases}$ → Scalar matrix ; $a_{ij} = \begin{cases} k & ; i=j \\ 0 & ; i\neq j \end{cases}$

→ Unit matrix ; $a_{ij} = \begin{cases} 1 & ; i=j \\ 0 & ; i\neq j \end{cases}$ → Null matrix : All elements zero.

→ Upper triangular matrix $\begin{bmatrix} a & b \\ 0 & c \end{bmatrix}$ → Lower triangular matrix $\begin{bmatrix} a & 0 \\ b & c \end{bmatrix}$

★ For all the above matrices ; $|A|$ = Product of leading diagonal elements

→ Symmetric matrix : $[A^T = A]$ → Skew-symmetric matrix : $[A^T = -A]$

→ orthogonal matrix :

main definition : $[A^T = A^{-1}]$

$A \cdot A^T = A A^{-1}$

$A \cdot A^T = I$

$|A \cdot A^T| = |I|$

$\Rightarrow |A| \cdot |A^T| = |I|$

$\Rightarrow |A|^2 = 1$

$\Rightarrow |A| = \pm 1$

★ If A orthogonal ⇒ $|A| = \pm 1$

★ If $|A| = \pm 1 \not\Rightarrow$ A is orthogonal

→ Hermetian Matrix :

→ Complex square matrix if conjugated transpose is equal to matrix.

$(\bar{A})^T = A$.

→ For hermitian matrix ; diagonal elements are real (including zero) and upper, lower diagonal elements are conjugate pairs.

Eg → $A = \begin{bmatrix} 1 & 2-i \\ 2+i & 3 \end{bmatrix} \Rightarrow (\bar{A})^T = \begin{bmatrix} 1 & 2-i \\ 2+i & 3 \end{bmatrix}$

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Advanced Engineering Mathematics Notes:

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