

#### ④ Adjoint and Inverse of Matrix:

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

→ For a 2x2 matrix:

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

↙ sign change ↘

→ For n x n matrix A:

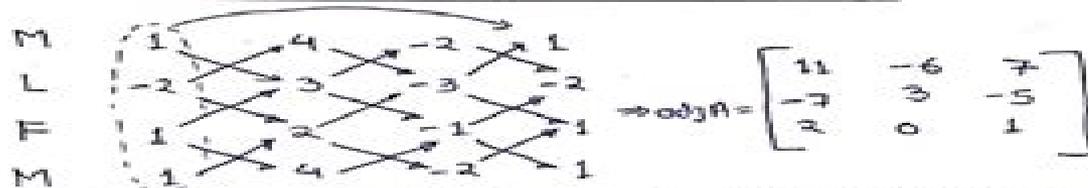
$$|\text{adj } A|_{n \times n} = |A|^{n-1}$$

$$\rightarrow |\text{adj} \cdot \text{adj} \cdot \text{adj} \dots \text{times } A| = |A|^{(n-1)^2}$$

Shortcut for 3x3 matrix

$$A = \begin{bmatrix} 1 & 2 & 3 \\ -1 & 1 & -2 \\ 2 & 4 & 3 \end{bmatrix}$$

(1) (2) (3)  
 (4) (5) (6)  
 (7) (8) (9)



• Inverse:  $A^{-1} = \frac{1}{|A|} \cdot \text{adj}(A)$

→  $A \cdot \text{adj}(A) = |A| \cdot I$  → Inverse is defined only for non-singular matrix.

→  $|A^{-1}| = \frac{1}{|A|}$

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

#### 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;  $|A| = \text{Product of leading diagonal elements}$

→ Symmetric matrix:  $[A^T = A]$

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

→ Orthogonal matrix:

→ Hermitian Matrix:

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

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

$A \cdot A^T = A A^T$

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

$A \cdot A^T = I$

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

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

⇒  $|A| \cdot |A^T| = |I|$

⇒  $|A|^2 = 1$

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

⇒  $|A| = \pm 1$

\* If A orthogonal ⇒  $|A| = \pm 1$

\* If  $|A| = \pm 1$  for A is orthogonal.

# Advanced Engineering Mathematics Notes

**Erwin Kreyszig**



## **Advanced Engineering Mathematics Notes:**

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