

#### 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)  
↙ ↘ ↙ ↘ ↙ ↘  
↙ ↘ ↙ ↘ ↙ ↘  
(3) (2) (1)

$$\begin{matrix} M \\ L \\ F \\ M \end{matrix} \begin{bmatrix} 1 & 4 & -2 & 1 \\ -2 & 3 & -3 & -2 \\ 1 & 2 & -1 & 1 \\ 1 & 4 & -2 & 1 \end{bmatrix} \Rightarrow \text{adj} A = \begin{bmatrix} 11 & -6 & 7 \\ -7 & 3 & -15 \\ 2 & 0 & 1 \end{bmatrix}$$

• 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.

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

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

$$\Rightarrow |A|^2 = 1$$

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

$$\Rightarrow |A| = \pm 1$$

\* If A orthogonal  $\Rightarrow |A| = \pm 1$

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

# Advanced Engineering Mathematics Notes

**G Thomas**



## **Advanced Engineering Mathematics Notes:**

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Advanced Engineering Mathematics Peter V. O'Neil, 1987 Through four editions Peter O Neil has made rigorous engineering mathematics topics accessible to thousands of students by emphasizing visuals numerous examples and interesting mathematical models ADVANCED ENGINEERING MATHEMATICS features a greater number of examples and problems and is fine tuned throughout to improve the clear flow of ideas The computer plays a more prominent role than ever in generating computer graphics used to display concepts And problem sets incorporate the use of such leading software packages as MAPLE Computational assistance exercises and projects have been included to encourage students to make use of these computational tools The content is organized into eight parts and covers a wide spectrum of topics including Ordinary Differential Equations Vectors and Linear Algebra Systems of Differential Equations Vector

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