

#### 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:

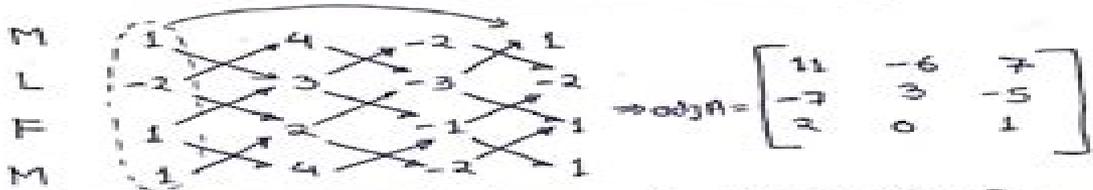
$$|\text{adj} A|_{n \times n} = |A|^{n-1}$$

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

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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Operator Theory for Electromagnetics George W. Hanson,Alexander B. Yakovlev,2013-03-09 The purpose of this book is to describe methods for solving problems in applied electromagnetic theory using basic concepts from functional analysis and the theory of operators Although the book focuses on certain mathematical fundamentals it is written from an applications perspective for engineers and applied scientists working in this area Part I is intended to be a somewhat self contained introduction to operator theory and functional analysis especially those elements necessary for application to problems in electromagnetics The goal of Part I is to explain and synthesize these topics in a logical manner Examples principally geared toward electromagnetics are provided With the exception of Chapter 1 which serves as a review of basic electromagnetic theory Part I presents definitions and theorems along with associated discussion and examples This style was chosen because it allows one to readily identify the main concepts in a particular section A proof is provided for all theorems whose proof is simple and straightforward A proof is also provided for theorems that require a slightly more elaborate proof yet one that is especially enlightening being either constructive or illustrative Generally theorems are stated but not proved in cases where either the proof is too involved or the details of the proof would take one too far afield of the topic at hand such as requiring additional lemmas that are not clearly useful in applications

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bodies the molecular kinetic interpretations of rheological behavior and the principles of reaction kinetics This book will prove useful to chemical engineers

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web we interpret this as two molecules of hydrogen react with one molecule of oxygen to make two molecules of water the chemical equation is balanced as long as the coefficients are in the ratio 2 1 2 for instance this chemical equation is also balanced 100h<sub>2</sub> 50o<sub>2</sub> 100h<sub>2</sub>o 100 h 2 50 o 2 100 h 2 o

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web the amount in moles of pb<sub>3</sub>o<sub>4</sub> to 3 significant figures iii the amount in moles of lead produced iv mass of lead produced to 3 significant figures b 35 61 g of tin reacts with exactly 42 60 g of chlorine cl<sub>2</sub> to form 78 21 g of tin iv chloride sncl<sub>4</sub> i calculate the number of moles of tin chlorine and tin chloride a r values

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