

## ④ Adjoint and Inverse of Matrix:

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

→ for a  $2 \times 2$  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  $n \times n$  matrix  $A$ :

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

Short cut for  $3 \times 3$  matrix

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix}$$

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

$$\rightarrow |A|^{-1} = \frac{1}{|A|}$$

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

M

L

F

M

$$\begin{array}{ccccccc} 1 & & 4 & & -2 & & 1 \\ & \cancel{1} & & \cancel{4} & & \cancel{-2} & \\ -2 & & 3 & & -3 & & -2 \\ & \cancel{-2} & & \cancel{3} & & \cancel{-3} & \\ 1 & & 2 & & -1 & & 1 \\ & \cancel{1} & & \cancel{2} & & \cancel{-1} & \\ -1 & & 4 & & -2 & & 1 \end{array}$$

$$\rightarrow \text{adj } A = \begin{bmatrix} 11 & -6 & 7 \\ -7 & 3 & -5 \\ 2 & 0 & 1 \end{bmatrix}$$

$\rightarrow |A \cdot \text{adj}(A)| = |A|^2 \cdot |I| \rightarrow$  Inverse is defined only for non-singular matrix.

$$\rightarrow (ABC)^T = C^T \cdot B^T \cdot A^T$$

## 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 :

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

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

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

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

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

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

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

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

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

→ Hermitian Matrix :

→ Complex square matrix if conjugate transpose is equal to matrix

$$(A)^T = A.$$

→ For Hermitian matrix ; diagonal elements are real (leading diag) and upper/lower diagonal elements are conjugate pairs.

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

# Advanced Engineering Mathematics Notes

**George W. Hanson,Alexander B.  
Yakovlev**

## 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

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and local emergency managers security consultants and agricultural engineers with recommended actions for prevention and mitigation to protect agricultural resources      **New Technical Books** New York Public Library,1988      Author - Title

Catalog University of California, Berkeley. Library,1963      *Physical Principles of Chemical Engineering* Peter Grassmann,2013-10-22 Physical Principles of Chemical Engineering covers the significant advancements in the understanding of the physical principles of chemical engineering This book is composed of 12 chapters that describe chemical unit processes through analogy with the unit of operations of chemical engineering The introductory chapters survey the concept and principles of mass and energy balances as well as the application of entropy The next chapters deal with the probability and kinetic theories of gases the physical aspects of solids the different dispersed systems and the principles and application of fluid dynamics Other chapters discuss the property dimension and model theory heat mass and momentum transfer and the characteristics of multiphase flow processes The final chapters review the model of rheological 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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Noble,1966      **Whitaker's Books in Print** ,1998      *Introduction to Mathematical Optimization* Xin-She Yang,2008 This book strives to provide a balanced coverage of efficient algorithms commonly used in solving mathematical optimization problems It covers both the convectional algorithms and modern heuristic and metaheuristic methods Topics include gradient based algorithms such as Newton Raphson method steepest descent method Hooke Jeeves pattern search Lagrange multipliers linear programming particle swarm optimization PSO simulated annealing SA and Tabu search Multiobjective optimization including important concepts such as Pareto optimality and utility method is also described Three Matlab and Octave programs so as to demonstrate how PSO and SA work are provided An example of demonstrating how to modify these programs to solve multiobjective optimization problems using recursive method is discussed

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