④ Adjoint and Inverse of Matrix:

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

→ 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 $n\times n$ matrix A:

$$|adj\,A|_{n\times n} = |A|^{n-1} \qquad \rightarrow \quad |adj\cdot adj\cdot adj\cdots s\,\text{times}\,A| = |A|^{(n-1)^s}$$

Shortcut for 3×3 matrix

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

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

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

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

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

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

$A\cdot A^T = I$

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

⇒ $|A|\cdot|A^T| = |I|$

⇒ $|A|^2 = 1$

⇒ $|A| = \pm 1$

★ If A orthogonal ⟹ $|A| = \pm 1$

★ If $|A| = \pm 1$ then A is orthogonal.

→ Hermetion Matrix:

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

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

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

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

Advanced Engineering Mathematics Notes

Peter V. O'Neil

Advanced Engineering Mathematics Notes:

   Advanced Engineering Mathematics, Abridged Edition Erwin Kreyszig,2007-12   *Advanced Engineering Mathematics* K.A. Stroud,Dexter J. Booth,2020-03-27 This revised advanced engineering mathematics textbook is suitable for undergraduates in engineering and science from second year level onwards Its technique orientated approach guides the student through the development of each topic   **Advanced Engineering Mathematics** Dean G. Duffy,1998 This Text is Ideal for a two semester course in advanced engineering mathematics or as a reference for practicing engineers and scientists Unlike other books on the subject which are often extremely lengthy and detailed Advanced Engineering Mathematics is a relatively short orderly text that is organized for maximum comprehension The text opens with an introduction to complex variables because they offer powerful techniques for understanding and computing Fourier Laplace and Z transforms This book contains a wealth of examples and problems many of them taken from the scientific and engineering literature Includes a number of multi stepped analytic problems to be used as class projects Covers the latest topics such as the Z transform Includes many historical notes to provide a perspective on engineering mathematics Computational projects for the chapters on Fourier Analysis Numerical Solutions of Partial Differential Equations and Linear Algebra provided throughout   **Advanced Engineering Mathematics** Erwin Kreyszig,2017-10-31 A mathematics resource for engineering physics math and computer science students The enhanced e text Advanced Engineering Mathematics 10th Edition is a comprehensive book organized into six parts with exercises It opens with ordinary differential equations and ends with the topic of mathematical statistics The analysis chapters address Fourier analysis and partial differential equations complex analysis and numeric analysis The book is written by a pioneer in the field of applied mathematics   *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 anal ysis 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 op erator theory and functional analysis especially those elements necessary for application to problems in electromagnetics The goal of Part I is to ex plain 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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