

#### 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:

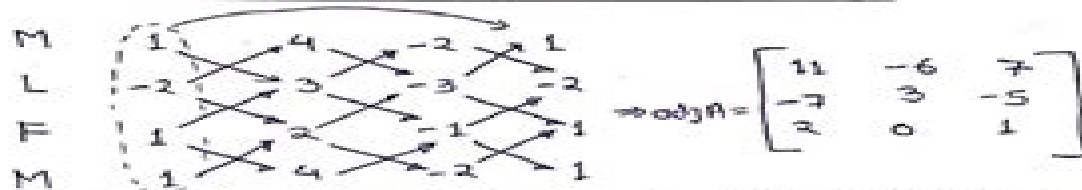
$$|\text{adj} A|_{n \times n} = |A|^{n-1}$$

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

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

**Lingjun Ying**



## **Advanced Engineering Mathematics Notes:**

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 Advanced Engineering Mathematics, Abridged Edition Erwin Kreyszig, 2007-12 **Advanced Engineering Mathematics** R. K. Jain, S. R. K. Iyengar, 2016-01-30 Based on three decades worth of experience and notes of mathematics course lecturers to engineering students Advanced Engineering Mathematics emphasizes the fundamental and theoretical concepts through explanatory illustrative examples and exercises In this revised edition the topic of Vector Spaces has been with further explored touching on concepts like the Sum of Subspaces Direct Sum of Subspaces and the Gram Schmidt Orthogonalization Process

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security consultants and agricultural engineers with recommended actions for prevention and mitigation to protect agricultural resources

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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

**MAA Notes**, 1983

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**Volume 1: Chapters 1 - 12 Student Solutions Manual and Study Guide** Herbert Kreyszig, Erwin Kreyszig, 2012-01-17  
Student Solutions Manual to accompany Advanced Engineering Mathematics 10e The tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations

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
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