

13/8/2016

* Determinant value of a square matrix :- the sum of the products of elements of a row (column) with their corresponding cofactors is known as determinant value of a square matrix.

2x2 $\begin{bmatrix} a & d \\ c & b \end{bmatrix}_{2 \times 2}$

$$|A| = ad - bc$$

3x3

$$A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 5 & 1 \\ 1 & 3 & 7 \end{bmatrix}_{3 \times 3}$$

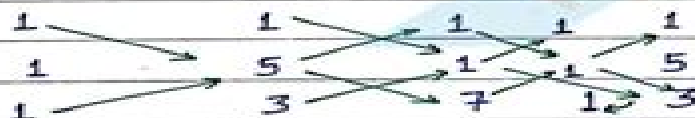
$$|A| = 1 \begin{vmatrix} 5 & 1 \\ 3 & 7 \end{vmatrix} - 1 \begin{vmatrix} 1 & 1 \\ 1 & 7 \end{vmatrix} + 1 \begin{vmatrix} 1 & 5 \\ 1 & 3 \end{vmatrix}$$

$$|A| = 1(35 - 3) - 1(7 - 1) + 1(3 - 5)$$

$$|A| = 32 - 6 - 2$$

$$|A| = 24$$

Trick
3x3



$$U = 5 + 3 + 7 = 15$$

$$L = 35 + 1 + 3 = 39$$

$$\begin{aligned} |A| &= 39 - 15 \\ &= (L - U) \\ &= 24 \end{aligned}$$

Advanced Engineering Mathematics Notes

Matthew M C Wright



Advanced Engineering Mathematics Notes:

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Mathematics H. C. Taneja, 2010-10-07 The text has been divided in two volumes Volume I Ch 1 13 Volume II Ch 14 22 In addition to the review material and some basic topics as discussed in the opening chapter the main text in Volume I covers topics on infinite series differential and integral calculus matrices vector calculus ordinary differential equations special functions and Laplace transforms Volume II covers topics on complex analysis Fourier analysis partial differential equations and statistics The present book has numerous distinguishing features over the already existing books on the same topic The chapters have been planned to create interest among the readers to study and apply the mathematical tools The subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises which would eventually help the reader for hassle free study **Analytical and Computational Methods of Advanced Engineering**

Mathematics Grant B. Gustafson, Calvin H. Wilcox, 2012-12-06 NOTES This text focuses on the topics which are an essential part of the engineering mathematics course ordinary differential equations vector calculus linear algebra and partial differential equations Advantages over competing texts 1 The text has a large number of examples and problems a typical section having 25 quality problems directly related to the text 2 The authors use a practical engineering approach based upon solving equations All ideas and definitions are introduced from this basic viewpoint which allows engineers in their second year to understand concepts that would otherwise be impossibly abstract Partial differential equations are introduced in an engineering and science context based upon modelling of physical problems A strength of the manuscript is the vast number of applications to real world problems each treated completely and in sufficient depth to be self contained 3 Numerical analysis is introduced in the manuscript at a completely elementary calculus level In fact numerics are advertised as just an extension of the calculus and used generally as enrichment to help communicate the role of mathematics in engineering applications 4 The authors have used and updated the book as a course text over a 10 year period 5 Modern outline as contrasted to the outdated outline by Kreysig and Wylie 6 This is now a one year course The text is shorter and

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