

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

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

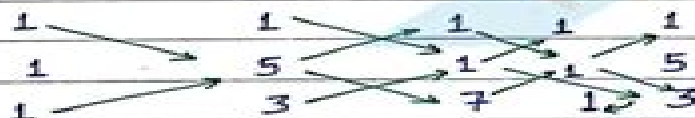
$$|A| = 1 \begin{vmatrix} 5 & 1 \\ 3 & 7 \end{vmatrix} - 1 \begin{vmatrix} 1 & 1 \\ 1 & 7 \end{vmatrix} + 1 \begin{vmatrix} 1 & 5 \\ 1 & 3 \end{vmatrix}$$

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

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

$$|A| = 24$$

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

Clemens Wendtner



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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**

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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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Nonlinear Optics And Optical Physics: Lecture Notes From Capri Spring School Iam-choon Khoo, J F Lam, Francesco Simoni, 1994-08-15 This book consists of contributions by leading authorities in nonlinear optics and optical physics The topics covered include fundamental theories and formalisms on nonlinear optics and current topics of interest in optical physics as well as more specialized subjects such as phase conjugation nonlinear guided waves parametric oscillations and some novel materials The coverage is comprehensive but pedagogical in nature **Engineering Mathematics** S. S. Sastry, 2008-07-30 This fourth edition continues to serve as a basic text for engineering students as part of their course in engineering mathematics It focuses on differential equations of the second order Laplace transforms and inverse Laplace transforms and their applications to differential equations It provides an in depth analysis of functions of several variables and presents in an easy to understand style double triple and improper integrals **Neutron Transport** Ramadan M. Kuridan, 2023-09-26 This textbook provides a thorough explanation of the physical concepts and presents the general theory of different forms through approximations of the neutron transport processes in nuclear reactors and emphasize the numerical computing methods that lead to the prediction of neutron behavior Detailed derivations and thorough discussions are the prominent features of this book unlike the brevity and conciseness which are the characteristic of most available textbooks on the subject where students find them difficult to follow This conclusion has been reached from the experience gained through decades of teaching The topics covered in this book are suitable for senior undergraduate and graduate students in the fields of nuclear engineering and physics Other engineering and science students may find the

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