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(Part-2) |Rank of Matrix by Echelon Form |

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Unit 1 - Matrices - Engineering Mathematics Chapter 1

Matrix Algebra S YNOPSIS 1 M ATRIX A matrix is a rectangular array of numbers The numbers may be real or complex It may be represented as  $A = \begin{bmatrix} 2 & 6 & 6 & 6 \end{bmatrix}$

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engineering mathematics 1 notes matrices numbers or other expressions Chapter 1 Matrices amp Determinants Suppose a Matrix A has 'm' rows and 'n' columns the order of Matrix A is denoted by 'm x n' read as 'm by n' The

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10 CHAPTER 1. MATRICES Example 1.1.4 The linear system of equations  $2x + 3y = 5$  and  $3x + 2y = 5$  can be identified with the matrix  $\begin{pmatrix} 2 & 3 \\ 3 & 2 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 5 \\ 5 \end{pmatrix}$ . 1.1.1 Special Matrices Definition 1.1.5 1. A matrix in which each entry is zero is called a zero-matrix, denoted by  $0$ . For example,  $0_{2 \times 2} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$  and  $0_{2 \times 3} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$ . 2.

NotesonMathematics-1021

Engineering Mathematics 1. Dr Tang Wee Kee Division of Mathematical Sciences, School of Physical and

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Mathematical Sciences, Nanyang Technological University, Singapore. Semester 1 2019/ 4

CONTENTS-2.3 Vectors in Coordinate System; 2.3.1 Vectors in 2-space (the plane). 2.3.2 Vectors in 3-space; 2.4 Lines and Planes; 2.4.1 Lines; 2.4.2 Plane; 3 ...

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Property 1: (I) The sum of the Eigen values of a matrix is equal to the sum of the elements of the principal diagonal (trace of the matrix). i.e.,  $\lambda_1 + \lambda_2 + \lambda_3 = a_{11} + a_{22} + a_{33}$  (ii) The product of the Eigen values of a matrix is equal to the determinant of the matrix.

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i.e.,  $\lambda_1 \lambda_2 \lambda_3 = |A|$

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determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector transformations, and the conditions of their solvability are explored. Orthogonal matrices are introduced with examples showing application to many problems requiring three dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix, leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations. Because the eigenvalue problem requires some operations with polynomials, a separate discussion of these is given in an appendix.

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The example of the vibrating string is given with a comparison of the matrix analysis to the continuous solution. Table of Contents: Matrix Fundamentals / Determinants / Matrix Inversion / Linear Simultaneous Equation Sets / Orthogonal Transforms / Matrix Eigenvalue Analysis / Matrix Analysis of Vibrating Systems

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application and reinforcement.

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anybody can set up a blog or post a video online. Now, political activists can network together online. The Handbook of Research on Politics in the Computer Age is a pivotal reference source that serves to increase the understanding of methods for politics in the computer age, the effectiveness of these methods, and tools for analyzing these methods. The book includes research chapters on different aspects of politics with information technology, engineering, computer science, or math, from 27 researchers at 20 universities and research organizations in Belgium, Brazil, Cape Verde, Egypt, Finland, France, Hungary, Italy, Mexico, Nigeria, Norway, Portugal, and the United States of America. Highlighting topics such as

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