

and first column can be cleared of other non-zero elements. Similarly, the element 1 of the second row can be brought into the second column, and so on.

Example 1. Find the rank of the matrix.

$$A = \begin{bmatrix} 1 & 3 & 5 & 7 \\ -3 & 2 & 4 & 5 \end{bmatrix}$$

Solution. Here, we have

$$\begin{aligned} A &= \begin{bmatrix} 1 & 3 & 5 & 7 \\ -3 & 2 & 4 & 5 \end{bmatrix} \\ &= \begin{bmatrix} 1 & 3 & 5 & 7 \\ 0 & 11 & 19 & 26 \end{bmatrix} \quad R_2 \rightarrow R_2 + 3R_1 \end{aligned}$$

The number of non-zero row is 2, therefore Rank $(A) = 2$.

Example 2. Find the rank of the matrix

$$A = \begin{bmatrix} 1 & 2 & 3 & -4 \\ -2 & 3 & 7 & -1 \\ 1 & 9 & 16 & -13 \end{bmatrix}$$

Solution. Here, we have

$$\begin{aligned} A &= \begin{bmatrix} 1 & 2 & 3 & -4 \\ -2 & 3 & 7 & -1 \\ 1 & 9 & 16 & -13 \end{bmatrix} \\ &= \begin{bmatrix} 1 & 2 & 3 & -4 \\ 0 & 7 & 13 & -9 \\ 0 & 7 & 13 & -9 \end{bmatrix} \quad \begin{array}{l} R_2 \rightarrow R_2 + 2R_1 \\ R_3 \rightarrow R_3 - R_1 \end{array} \\ &= \begin{bmatrix} 1 & 2 & 3 & -4 \\ 0 & 7 & 13 & -9 \\ 0 & 0 & 0 & 0 \end{bmatrix} \quad R_3 \rightarrow R_3 - R_2 \end{aligned}$$

Here the number of non-zero row is 2, therefore

$$\text{Rank}(A) = 2.$$

Example 3. Reduce the matrix A to diagonal form

(U.P. I semester Dec: 2005)

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

Solution. We have,

$$\begin{aligned} A &= \begin{bmatrix} -1 & 2 & -2 \\ 1 & 2 & 1 \\ -1 & -1 & 2 \end{bmatrix} \\ &= \begin{bmatrix} -1 & 2 & -2 \\ 0 & 4 & -1 \\ 0 & -3 & 4 \end{bmatrix} \quad \begin{array}{l} R_2 \rightarrow R_2 + R_1 \\ R_3 \rightarrow R_3 - R_1 \end{array} \\ &= \begin{bmatrix} -1 & 2 & -2 \\ 0 & 4 & -1 \\ 0 & 0 & 13/4 \end{bmatrix} \quad R_3 \rightarrow R_3 + \frac{3}{4}R_2 \end{aligned}$$

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Matrix Operations for Engineers and Scientists Alan Jeffrey, 2010-09-05 Engineers and scientists need to have an introduction to the basics of linear algebra in a context they understand Computer algebra systems make the manipulation of matrices and the determination of their properties a simple matter and in practical applications such software is often essential However using this tool when learning about matrices without first gaining a proper understanding of the underlying theory limits the ability to use matrices and to apply them to new problems This book explains matrices in the detail required by engineering or science students and it discusses linear systems of ordinary differential equations These students require a straightforward introduction to linear algebra illustrated by applications to which they can relate It caters of the needs of undergraduate engineers in all disciplines and provides considerable detail where it is likely to be helpful According to the author the best way to understand the theory of matrices is by working simple exercises designed to emphasize the theory that at the same time avoid distractions caused by unnecessary numerical calculations Hence examples and exercises in this book have been constructed in such a way that wherever calculations are necessary they are straightforward For example when a characteristic equation occurs its roots the eigenvalues of a matrix can be found by inspection The author of this book is Alan Jeffrey Emeritus Professor of mathematics at the University of Newcastle upon Tyne He has given courses on engineering mathematics at UK and US Universities

Matrix Algebra for Engineers

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Matrices in Engineering Problems Marvin J. Tobias, 2011 This book is intended as an undergraduate text introducing matrix methods as they relate to engineering problems It begins with the fundamentals of mathematics of matrices and 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 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

Modern Engineering Mathematics Glyn James, 2001 This book is a first level core studies course in mathematics for undergraduate courses in all engineering disciplines This book gives numerous fully worked examples and exercises and also gives coverage of applications

Matrix Analysis for Scientists and Engineers Alan J. Laub, 2005-01-01 Matrix Analysis for Scientists and Engineers provides a blend of undergraduate and graduate level topics in matrix theory and linear algebra that relieves instructors of the burden of reviewing such material in subsequent courses that depend heavily on the language of matrices Consequently the text provides an often needed bridge between undergraduate level matrix theory and linear algebra and the level of matrix analysis required for graduate level study and research The text is sufficiently compact that the material can be taught comfortably in a one quarter or one semester course Throughout the book the author emphasizes the concept of matrix factorization to provide a foundation for a later course in numerical linear algebra The author addresses connections to differential and difference equations as well as to linear system theory and encourages instructors to augment these examples with other applications of their own choosing

Road Vehicle Dynamics Rao V Dukkipati, Jian Pang, Mohamad S Qatu, Gang Sheng, Zuo Shuguang, 2008-06-19 This book provides a detailed and well rounded overview of the dynamics of road vehicle systems Readers will come to understand how

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A Brief Course in Linear Algebra Whye-Teong Ang, 2019-06-15 This book contains a brief course in elementary linear algebra with emphasis on solving systems of linear algebraic and ordinary differential equations It is written for undergraduate students in the disciplines of applied mathematics science and engineering Topics covered include basics of matrices and vectors systems of linear algebraic equations matrix inverse matrix determinant eigenvalues and eigenvectors matrix diagonalization and systems of first order linear ordinary differential equations The connections between the topics are carefully elucidated Derivations or proofs are given in detail for all the main results in the book Basic knowledge of the arithmetic of complex numbers and exposure to elementary functions and calculus are assumed Problems are set at the end of every main chapter of the book to test the understanding of students and to provide further insights into the topics studied

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