

$Ax = \lambda x$
 A : $n \times n$ Matrix
 x : "Eigen Vector"
 λ : "Eigen Value"
 same thing $\rightarrow (A - \lambda I)x = 0$
 $\det(A - \lambda I) = 0$ ← "Characteristic Equation of A "
 $(A - \lambda I)$ is singular
 $(A - \lambda I)$ is not invertible
 $P(\lambda) = \det(A - \lambda I)$
 "Characteristic Polynomial"

$$A = \begin{bmatrix} 4 & 8 \\ 6 & 26 \end{bmatrix} \quad A - I = \begin{bmatrix} 4 & 8 \\ 6 & 26 \end{bmatrix} - \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 4-1 & 8 \\ 6 & 26-1 \end{bmatrix} = \begin{bmatrix} 3 & 8 \\ 6 & 25 \end{bmatrix}$$

$$\lambda I = \lambda \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix}$$

$$A - \lambda I = \begin{bmatrix} 4 & 8 \\ 6 & 26 \end{bmatrix} - \begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix} = \begin{bmatrix} 4-\lambda & 8 \\ 6 & 26-\lambda \end{bmatrix}$$

$$\det(A - \lambda I) = \begin{vmatrix} 4-\lambda & 8 \\ 6 & 26-\lambda \end{vmatrix} = (4-\lambda)(26-\lambda) - (8)(6) = 104 - 30\lambda + \lambda^2 - 48 = \lambda^2 - 30\lambda + 56 = (\lambda - 28)(\lambda - 2) = 0$$

$$\lambda_1 = 28$$

$$\lambda_2 = 2$$

$$N(A - \lambda_1 I) = \left[\begin{array}{cc|c} 4-\lambda_1 & 8 & 0 \\ 6 & 26-\lambda_1 & 0 \end{array} \right] = \left[\begin{array}{cc|c} 4-28 & 8 & 0 \\ 6 & 26-28 & 0 \end{array} \right] = \left[\begin{array}{cc|c} -24 & 8 & 0 \\ 6 & -2 & 0 \end{array} \right] \xrightarrow{R_1/6} \left[\begin{array}{cc|c} -4 & 4/3 & 0 \\ 1 & -1/3 & 0 \end{array} \right] \xrightarrow{R_2 \leftrightarrow R_1} \left[\begin{array}{cc|c} 1 & -1/3 & 0 \\ -4 & 4/3 & 0 \end{array} \right] \xrightarrow{R_2 + 4R_1} \left[\begin{array}{cc|c} 1 & -1/3 & 0 \\ 0 & 0 & 0 \end{array} \right]$$

$$x_1 + 4x_2 = 0 \rightarrow x_1 = -4x_2 \rightarrow \begin{bmatrix} -4x_2 \\ x_2 \end{bmatrix} \rightarrow \begin{bmatrix} -4x_2 \\ x_2 \end{bmatrix} \rightarrow x_2 \begin{bmatrix} -4 \\ 1 \end{bmatrix}$$

Eigen space \rightarrow Eigen Vector

A Course In Linear Algebra

Francesco Bottacin



A Course In Linear Algebra:

A Course in Linear Algebra David B. Damiano, John B. Little, 2011-01-01 Suitable for advanced undergraduates and graduate students this text introduces basic concepts of linear algebra Each chapter contains an introduction definitions and propositions in addition to multiple examples lemmas theorems corollaries and proofs Each chapter features numerous supplemental exercises and solutions to selected problems appear at the end 1988 edition *Course In Linear Algebra With Applications: Solutions To The Exercises* Derek J S Robinson, 1992-11-16 This solution booklet is a supplement to the book *A Course in Linear Algebra with Applications* It will be useful to lecturers and to students taking the subject since it contains complete solutions to all 283 exercises in the book A Course in Linear Algebra Raju K. George, Abhijith Ajayakumar, 2024-03-03 Designed for senior undergraduate and graduate courses in mathematics and engineering this self contained textbook discusses key topics in linear algebra with real life applications Split into two parts theory in part I and solved problems in part II the book makes both theoretical and applied linear algebra easily accessible Topics such as sets and functions vector spaces linear transformations eigenvalues and eigenvectors normed spaces and inner product spaces are discussed in part I while in part II over 500 meticulously solved problems show how to use linear algebra in real life situations A must have book for linear algebra courses it also serves as valuable supplementary material *A Course in Linear Algebra with Applications* Derek John Scott Robinson, 1991 The book is an introduction to Linear Algebra with an account of its principal applications It is addressed to students of mathematics the physical engineering and social sciences and commerce The reader is assumed to have completed the calculus sequence Special features of the book are thorough coverage of all core areas of linear algebra with a detailed account of such important applications as least squares systems of linear recurrences Markov processes and systems of differential equations The book also gives an introduction to some more advanced topics such as diagonalization of Hermitian matrices and Jordan form A principal aim of the book is to make the material accessible to the reader who is not a mathematician without loss of mathematical rigor This is reflected in a wealth of examples the clarity of writing and the organization of material There is a growing need for knowledge of linear algebra that goes beyond the basic skills of solving systems of linear equations and this book is intended to meet it **A Course in Linear Algebra** Gareth Williams, 1972 A Course in Linear Algebra David B. Damiano, John B. Little, 1988-08-01 **A First Course in Linear Algebra** Daniel Zelinsky, 2014-05-12 A First Course in Linear Algebra provides an introduction to the algebra and geometry of vectors matrices and linear transformations This book is designed as a background for second year courses in calculus of several variables and differential equations where the theory of linear differential equations parallels that of linear algebraic equations The topics discussed include the multiplication of vectors by scalars vectors in n space planes and lines and composites of linear mappings The symmetric matrices and mappings quadratic forms change of coordinates and effect of change of basis on matrices of linear functions are also described This text likewise considers the

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A Course in Linear Algebra with Applications

Derek John Scott Robinson, 2006

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