

Homework 2: Introductory Linear Algebra Test 1 (2022) Solutions

Questions

(Answer 1 is correct) (Answer 2 is incorrect)

The matrix A below gives values for independent variables stored in the column vector x :

Input Variable	Variable (input)	Number (in x)	Number (stored in A) corresponding to
x_1	temperature	10 (degrees)	column 1 of A
x_2	humidity	20 (percent)	column 2 of A
x_3	pressure	10 (pascals)	column 3 of A

- (a) Determine the column vectors y_1 and y_2 such that y_1 is orthogonal to y_2 .
- (b) Determine the column vectors y_1 and y_2 such that y_1 is orthogonal to y_2 and y_1 is orthogonal to y_3 .
- (c) Write the column vector y_1 for the first column.
- (d) Write the column vector y_2 for the second column.
- (e) Check the orthogonality of the vectors y_1 and y_2 by calculating $y_1^T y_2$ and the scalar components $y_1^T y_1$ and $y_2^T y_2$.

The eigenvalues and corresponding vectors for matrix A are given by the following two equations:

$$\text{Eigenval: } \lambda_1 = 1, \quad \lambda_2 = 0.5$$

$$\text{Eigenvec: } v_1 = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}, \quad v_2 = \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$$

- (a) Write the matrix A and calculate the two eigenvalues.
- (b) Is the matrix A or calculate the two eigenvalues for an eigenvalue of A .
- (c) Calculate the column vector y_1 for the first column and the column vector y_2 for the second column.

Honors Chemistry Equilibrium Review

Léo Pomar



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