



$$v = [3, 4]$$

$$\|v\| = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$$

$$v - \text{Proj}_u v = \begin{bmatrix} 3 \\ 4 \end{bmatrix} - \begin{bmatrix} 9/5 \\ 12/5 \end{bmatrix} = \begin{bmatrix} 6/5 \\ 8/5 \end{bmatrix}$$

$$\|v - \text{Proj}_u v\| = \sqrt{\left(\frac{6}{5}\right)^2 + \left(\frac{8}{5}\right)^2} = \sqrt{\frac{36}{25} + \frac{64}{25}} = \sqrt{\frac{100}{25}} = 2$$



$$\text{Proj}_u v = \left(\frac{u \cdot v}{u \cdot u} \right) u$$

$$= \left(\frac{\begin{bmatrix} 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 4 \end{bmatrix}}{\begin{bmatrix} 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 1 \\ 0 \end{bmatrix}} \right) \begin{bmatrix} 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 3 \\ 0 \end{bmatrix}$$

$$\sqrt{\begin{bmatrix} 3/5 \\ 4/5 \end{bmatrix} \cdot \begin{bmatrix} 3/5 \\ 4/5 \end{bmatrix}} = \sqrt{\frac{9}{25} + \frac{16}{25}} = \sqrt{\frac{25}{25}} = 1$$

$$\vec{A} = (A_1, A_2) = (2, 1)$$

$$\vec{B} = (B_1, B_2) = (5, 1)$$

$$\vec{AB} = [B_1 - A_1, B_2 - A_2] = [5 - 2, 1 - 1] = [3, 0]$$

$$\angle = 180^\circ$$

$$\cos \theta = \frac{c \cdot d}{\|c\| \|d\|}$$

$$\frac{0}{\|c\| \|d\|} = \cos \theta = 0 \Rightarrow \theta = 90^\circ$$

$$\vec{a} \cdot \vec{b} = [1, 1] \cdot [2, 1] = 2 + 1 = 3$$

$$\|\vec{a}\| \cdot \|\vec{b}\| = \sqrt{1^2 + 1^2} \cdot \sqrt{2^2 + 1^2} = \sqrt{2} \cdot \sqrt{5} = \sqrt{10}$$

$$\cos \theta = \frac{3}{\sqrt{10}}$$

x	f(x)
-2	-4
-1	-2
0	0
1	2
2	4

(x, f(x))

$$\left(\frac{2 \cdot 10}{14 + 0} \right) \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{20}{14} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{10}{7} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 10 \\ 0 \end{bmatrix}$$



$$\text{Proj}_u v = y \rightarrow f(x) \rightarrow f(y)$$

Domain = R
Range = y | 0 ≤ y



Linear Algebra In Engineering

Daniel F McAuley



Linear Algebra In Engineering:

Decoding **Linear Algebra In Engineering**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Linear Algebra In Engineering**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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