change of Basis

Let V be a subspace of $\mathbb{R}^n$ with $B = (\vec{v}_1 \dots \vec{v}_k)$ a basis for V. If $\vec{x} = \begin{bmatrix} x_1 \\ \vdots \\ x_n \end{bmatrix} \in V$, the B coordinates for $\vec{x}$ are

$$[\vec{x}]_B = \begin{bmatrix} c_1 \\ \vdots \\ c_k \end{bmatrix}$$

(B: basis for $\vec{x}$)

where $c_1\vec{v}_1 + \dots + c_k\vec{v}_k = \vec{x}$

EX $\vec{x} = \begin{bmatrix} 2 \\ 3 \\ 2 \end{bmatrix}$ $B = \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}, \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$ $\vec{x} = 2\begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix} + 3\begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}$

(subspace)

$$[\vec{x}]_B = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$$

$[\vec{x}]_B$ is the coefficient of basis to make $\vec{x}$

- need basis and $\vec{x}$

★ Special case: $V = \mathbb{R}^n$ $B = (\vec{v}_1, \dots \vec{v}_n)$

$$S = \begin{bmatrix} | & & | \\ \vec{v}_1 & \cdots & \vec{v}_n \\ | & & | \end{bmatrix}$$

Then $[\vec{x}]_B = S^{-1}\vec{x}$

(V is all of $\mathbb{R}^n$)

Why: $S[\vec{x}]_B = \begin{bmatrix} | & & | \\ \vec{v}_1 & \cdots & \vec{v}_n \\ | & & | \end{bmatrix}\begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix} = c_1\vec{v}_1 + \dots c_n\vec{v}_n = \vec{x}$

$\Rightarrow [\vec{x}]_B = S^{-1}\vec{x}$ ✓ can go back & forth with this

Linear Algebra Concepts And Methods

Puja Mehta

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