

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

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

↖
basis for \vec{x}

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

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

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

$$S = \begin{bmatrix} \vec{v}_1 & \dots & \vec{v}_n \\ | & & | \\ 1 & & 1 \end{bmatrix}$$

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

V is all of \mathbb{R}^n

Why: $S [\vec{x}]_B = \begin{bmatrix} \vec{v}_1 & \dots & \vec{v}_n \\ | & & | \\ 1 & & 1 \end{bmatrix} \begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix} = c_1 \vec{v}_1 + \dots + c_n \vec{v}_n = \vec{x}$

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

Linear Algebra Concepts And Methods

Y Pai



Linear Algebra Concepts And Methods:

Linear Algebra: Concepts and Methods Martin Anthony, Michele Harvey, 2012-05-10 Any student of linear algebra will welcome this textbook which provides a thorough treatment of this key topic Blending practice and theory the book enables the reader to learn and comprehend the standard methods with an emphasis on understanding how they actually work At every stage the authors are careful to ensure that the discussion is no more complicated or abstract than it needs to be and focuses on the fundamental topics The book is ideal as a course text or for self study Instructors can draw on the many examples and exercises to supplement their own assignments End of chapter sections summarise the material to help students consolidate their learning as they progress through the book **Linear Algebra** Martin Anthony, 2012 This thorough yet concise treatment of all the key topics also gives students a sound understanding of the underlying theory

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