

[Zachron 1] → 小外度標案

$$[x]_{\frac{1}{2} \text{ rad}} \rightarrow [px]_{\frac{1}{2} \text{ rad}}$$

1. 大屋橋多工.  $\rightarrow [2\pi \text{ rad}] = \frac{\pi}{4} \text{ rad}$

$$B_{T1} = \text{Rot}(z, \frac{\pi}{2}) \text{Rot}(x, \frac{\pi}{2}) \text{Trans}(1, 0, 1)$$

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

$$\begin{bmatrix} 1+0+0 & 0 & 0 & 0 \\ 0+0+0 & 0 & 0 & 0 \\ 0+(0.5)+0 & 0 & 0 & 0 \\ 0+0+1 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0.5 & 0.5 \\ 0 & 0 & 0.5 & 0 \end{bmatrix} =$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 + (0.5) \cdot 0 + 0.5 & 0 + (0.5) \cdot 0 & 0 + 0.7 \cdot 0 & 0.5 \\ 0 + (0.5) \cdot 0 & 0.7 \cdot 0 + (0.5) & 0 + 0.7 \cdot (0.5) & 0 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\left( \frac{3}{2} = 0.5, \frac{1}{2} = 0.5 \right)$$

$$\left[ \begin{array}{c} \frac{z}{12} \\ 13-1 \\ 15+1 \end{array} \right] = 28$$

$$\begin{bmatrix} 1 \\ \frac{2}{3} \\ \frac{1}{3} \\ \frac{2}{3} \end{bmatrix} = \begin{bmatrix} 1 + 0 \\ \frac{2}{3} + 0 \\ \frac{1}{3} + \frac{2}{3} \\ \frac{2}{3} + \frac{2}{3} \end{bmatrix} =$$

$$B^T u = \begin{bmatrix} 0 \\ \frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{2}} \end{bmatrix}$$

$$\begin{bmatrix} 1 \\ 1 \\ d_H \end{bmatrix}^T H = \begin{bmatrix} 1 \\ 1 \\ d_B \end{bmatrix}^T \Rightarrow$$

$$(\begin{smallmatrix} f \\ g \end{smallmatrix})^B H^B = (\begin{smallmatrix} f \\ g \end{smallmatrix})^B$$

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