Ten: vong vĩnh phù mssu: 19110413

Tolar

 $\overline{V}_{1} = \begin{bmatrix} 1 \\ 0 \end{bmatrix} \quad \overline{V}_{2} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$

 $\overrightarrow{u}_{1} = \overrightarrow{v}_{1} \begin{bmatrix} \overrightarrow{v}_{1} \\ \overrightarrow{v}_{2} \end{bmatrix} = \begin{bmatrix} \overrightarrow{v}_{2} \\ \overrightarrow{v}_{2} \end{bmatrix}$

 $u_2 = \overline{v_2} - \overline{v_2} \cdot \overline{u_1} \cdot \overline{u_1}$

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

 $Q = \begin{bmatrix} \vec{e}_1 / \vec{e}_2 \end{bmatrix} = \begin{bmatrix} \sqrt{2}/2 & C \\ C & I \end{bmatrix}$

 $\widehat{R} = \widehat{\mathbb{Q}}^{\times} A = \begin{bmatrix} \sqrt{2}/2 & \sqrt{2} & \sqrt{2} & \sqrt{2} \\ \sqrt{2} & \sqrt{2} & \sqrt{2} & \sqrt{2} \end{bmatrix} = \begin{bmatrix} \sqrt{2}/2 & \sqrt{2} & \sqrt{2} & \sqrt{2} \\ \sqrt{2} & \sqrt{2} & \sqrt{2} & \sqrt{2} \end{bmatrix}$

 $= \begin{bmatrix} \sqrt{2} & 0 & \sqrt{2} \\ 2 & 0 & 2 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} \sqrt{2} & 0 \\ 0 & 1 \end{bmatrix}$

 $A = \widehat{QR} = \begin{bmatrix} \sqrt{2} & 0 \\ 2 & 1 \\ \sqrt{2} & 0 \end{bmatrix}$ $= \begin{bmatrix} \sqrt{2} & 0 \\ 2 & 1 \\ \sqrt{2} & 0 \end{bmatrix}$

Ngày.
4 +1 0 R AT AL
etab ey = [913] 912]
$\int_{0}^{\infty} (q_{1}, q_{5}) = \frac{1}{\sqrt{2}} q_{13} + 0 q_{23} + \frac{1}{\sqrt{2}} q_{33} = 0$
$(q_2, q_3) = (q_1 + q_2) + (q_3) = 0$
(=) 1913 = -b
$\frac{1}{923} = \alpha, \alpha, b \in \mathbb{R}$ $\frac{933}{933} = b$
$\frac{1}{16-1} = \frac{1}{16-1} = 1$
$\begin{array}{c c} Chon & Q = 0 \\ V_3 = \begin{bmatrix} -1 \\ 0 \end{bmatrix} = \begin{bmatrix} -1 \\ 0 \end{bmatrix} = \begin{bmatrix} -1/2 \\ 0 \end{bmatrix} \begin{bmatrix} -1/2 \\ 0 \end{bmatrix}$
5 V2 C V2 7 CV2 C 7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

b,
$$B = \begin{bmatrix} 1 & 2 \\ 1 & 0 \end{bmatrix}$$

$$\overrightarrow{U}_1 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}, \quad \overrightarrow{V}_2 \begin{bmatrix} 2 \\ 1 \\ 0 \end{bmatrix}$$

$$\overrightarrow{U}_1 = \overrightarrow{U}_1 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}, \quad \overrightarrow{V}_2 \begin{bmatrix} 2 \\ 1 \end{bmatrix}$$

$$\overrightarrow{U}_2 = \overrightarrow{U}_1 = \begin{bmatrix} 1 \\ 1 \end{bmatrix}, \quad \overrightarrow{V}_2 \begin{bmatrix} 2 \\ 1 \end{bmatrix}, \quad \overrightarrow{U}_3 \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \quad \overrightarrow{U}_4 = \begin{bmatrix} 2 \\ 1 \end{bmatrix}, \quad \overrightarrow{U}_4 \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \quad \overrightarrow{U}_2 \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \quad \overrightarrow{U}_2 \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \quad \overrightarrow{U}_3 \begin{bmatrix} 2 \\ 2 \end{bmatrix}, \quad \overrightarrow{U}$$

* tim fatt QR di 93 = [918 | $< q_1, q_3 > = \frac{1}{V_2} q_{13} + 0 q_{23} + \frac{1}{V_2} q_{33} = 0$ 92,932 = 43 933 + 1 923 - 1 937 =0 (a) { 917 + 9350 L 913 + 923 + 933 = 0 B= QR= - ma trên R Sẽ có rij = 0 kh i > j hoạt j cj rấi chung không t thời là chấn hoặc là - eva i = j : ri, t C - eva i cj boạc i> j rũ

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