Mediens Nikodaos

Aprillmerki Γραμμική Αλχειβρα 3n ερχαιστηριακή διστηση (πρώδοση εως 16-04 00°)

Hornen I

Enolvisors, 
$$U = \begin{bmatrix} 1 - 2 & 4 \\ 0 & 2 & 1 \\ 0 & 0 & -37/4 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 0 & 2 & 1 \\ 1 & -2 & 4 \\ 4 & 1 & 2 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 4 & 4/2 & 1 \end{bmatrix} \begin{bmatrix} 1 & -2 & 4 \\ 0 & 2 & 1 \\ 0 & 0 & -37/4 \end{bmatrix}$$

lia envaveierçopo exorpre.

$$\begin{bmatrix}
1 & 0 & 0 & 1 & 0 & 0 \\
6 & 1 & 0 & 1 & 0 & 0
\end{bmatrix}$$

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

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

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

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

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

Acknon 4

$$\Delta = \begin{bmatrix}
4 & 2 & 0 & 2 \\
0 & -1 & 4 & 1 \\
2 & -1 & 1 & 4
\end{bmatrix}$$

$$\Delta = \Delta^{T}$$

$$\Delta = L \cdot U \Rightarrow \qquad U = L^{T}$$

$$\Delta = L \cdot L^{T}$$

$$\begin{vmatrix} 4 & 2 & 0 & 2 \\ 2 & 4 & -1 & -1 \\ 0 & -1 & 4 & 1 \\ 2 & -1 & 1 & 4 \end{vmatrix} = \begin{vmatrix} 11 & 0 & 0 & 0 \\ 121 & 122 & 123 & 0 \\ 121 & 122 & 133 & 0 \\ 141 & 142 & 141 & 141 \\ 141 & 142 & 141 & 141 \\ 141 & 141 & 141 \\ 141 & 141 & 141 \\ 141 &$$

$$\begin{cases} \ln^2 4 = 3 & \ln |4| = 2 \\ \ln |2| = 2 = 3 & \ln |4| = 2 \\ \ln |2| = 2 = 3 & \ln |4| = 2 \\ \ln |2| = 2 = 3 & \ln |4| = 2 \\ \ln |2| = 2 = 3 & \ln |4| = 2 \\ \ln |2| + |2| = 2 = 3 & \ln |2| = 3 \\ \ln |2| + |2| + |2| + |2| = 3 \\ \ln |2| + |2| + |2| + |2| = 3 \\ \ln |2| + |2| + |2| + |2| = 3 \\ \ln |2| + |2| + |2| + |2| = 3 \\ \ln |2| + |2| + |2| + |2| = 3 \\ \ln |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2| + |2|$$

$$L_{T} = \begin{bmatrix} 2 & 1 & 0 & 1 \\ 0 & 3 & \sqrt{3} & \sqrt{3} \\ 0 & 0 & \sqrt{33} / 3 & \sqrt{3} / \frac{3}{3} \\ 0 & 0 & 0 & 3 \sqrt{22} \\ 0 & 0 & 0 & 3 \sqrt{11} \end{bmatrix} = U$$

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