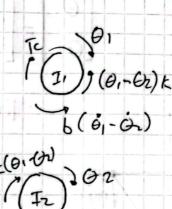


Tarea



$$\dot{\Theta}_{1} = \frac{T_{C}}{I_{1}} - \frac{K}{I_{1}} \Theta_{1} + \frac{K}{I_{1}} \Theta_{2} - \frac{b\dot{\Theta}_{1}}{I_{1}} + \frac{b\dot{\Theta}_{2}}{I_{1}}$$

$$\begin{bmatrix}
\dot{q}_{1} \\ \dot{q}_{2} \\ \dot{q}_{3} \\ \dot{q}_{4}
\end{bmatrix} = \begin{bmatrix}
0 & 1 & 0 & 0 \\
-\frac{k}{4} & -\frac{b}{1} & \frac{k}{1} & \frac{b}{1} \\
0 & 0 & 1 & 0
\end{bmatrix} \begin{bmatrix}
\dot{q}_{1} \\
\dot{q}_{2} \\
\dot{q}_{3} \\
\dot{q}_{4}
\end{bmatrix} + \begin{bmatrix}
0 \\
-\frac{k}{1^{2}} & -\frac{b}{1^{2}} & \frac{k}{1^{2}} \\
\frac{-k}{1^{2}} & \frac{-b}{1^{2}} & \frac{k}{1^{2}} & \frac{b}{1^{2}}
\end{bmatrix} \begin{bmatrix}
\dot{q}_{1} \\
\dot{q}_{2} \\
\dot{q}_{3}
\end{bmatrix} + \begin{bmatrix}
0 \\
-\frac{k}{1^{2}} & -\frac{b}{1^{2}} & \frac{k}{1^{2}} \\
0 \\
0
\end{bmatrix}$$

