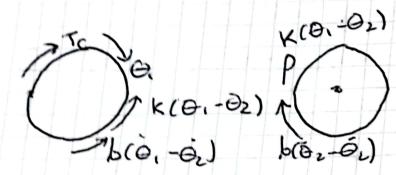
-Teren # 2.



$$\frac{T_{C}}{I} - \frac{K(\Theta_{1})}{I} + \frac{K\Theta_{2}}{I} - \frac{b\Theta_{1}}{I} + \frac{b\Theta_{2}}{I} = \Theta_{1}$$

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

$$\begin{bmatrix} \dot{q} \\ \dot{q} \\ \dot{q} \\ \dot{q} \\ \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ \frac{K}{L_1} & \frac{b}{L_1} & \frac{b}{L_1} \\ 0 & 0 & 0 & 0 \\ 0 & \frac{K^{1}b}{L_2} & \frac{-b}{L_2} \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} \begin{bmatrix} \overline{J}_{1} \end{bmatrix} & -\frac{b}{\overline{J}_{1}} \\ -\frac{b}{\overline{J}_{1}} \end{bmatrix} = \begin{bmatrix} 1 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} q_{1} & q_{2} \\ q_{1} & q_{3} \\ q_{4} & q_{4} \end{bmatrix}$$