

$$\begin{pmatrix} \dot{x} \\ \dot{x}_1 \\ \dot{y} \\ \dot{y}_1 \end{pmatrix} = \begin{pmatrix} 0 & 1 & 0 & 0 \\ -\frac{1}{lC} & \frac{r}{l} & \frac{1}{lC} & 0 \\ 0 & 0 & 0 & 1 \\ \frac{1}{lC} & 0 & -\frac{1}{lC} & -\frac{r}{l} \end{pmatrix} \begin{pmatrix} x \\ x_1 \\ y \\ y_1 \end{pmatrix} + \begin{pmatrix} 0 & 0 \\ \frac{1}{lC} & 0 \\ 0 & 0 \\ 0 & -\frac{1}{lC} \end{pmatrix} \begin{pmatrix} h_1 \\ h_2 \end{pmatrix}$$
$$\begin{pmatrix} q_1 \\ q_2 \end{pmatrix} = \begin{pmatrix} 0 & C & 0 & 0 \\ 0 & 0 & 0 & C \end{pmatrix} \begin{pmatrix} x \\ x_1 \\ y \\ y_1 \end{pmatrix}$$

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