$$\frac{2s^2 + -47.5}{s^4 + 0.2s^3 - 4.75s} \quad y_1$$

$$u$$

$$\frac{5s}{+ 0.2s^2 - 30s - 4.75} \quad y_2$$

$$\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \\ \dot{x}_3 \\ \dot{x}_4 \end{bmatrix} = \begin{bmatrix} 0 & 1 & & \\ 0 & \frac{-(J+m\ell^2)b}{J(M+m)+Mm\ell^2} & & \\ 0 & 0 & & 0 \\ 0 & \frac{-m\ell b}{J(M+m)+Mm\ell^2} & \frac{mg\ell(M+m)}{J(M+m)+Mm\ell^2} & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} + \begin{bmatrix} 0 \\ \frac{J+m\ell^2}{J(M+m)+Mm\ell^2} \\ 0 \\ \frac{m\ell}{J(M+m)+Mm\ell^2} \end{bmatrix} u$$

$$y = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} + \begin{bmatrix} 0 \\ 0 \end{bmatrix} u$$

Linear System Theory

Christiaan Heij,André C.M. Ran,F. van Schagen

Linear System Theory:

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