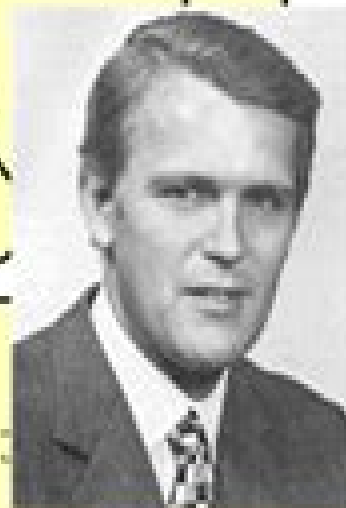
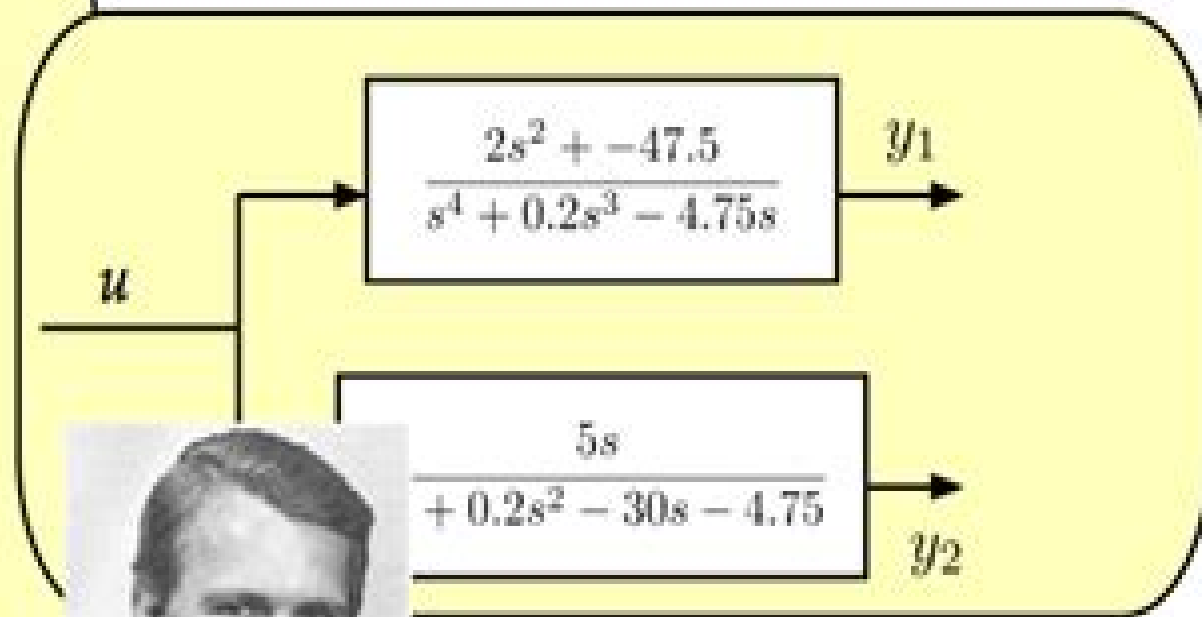
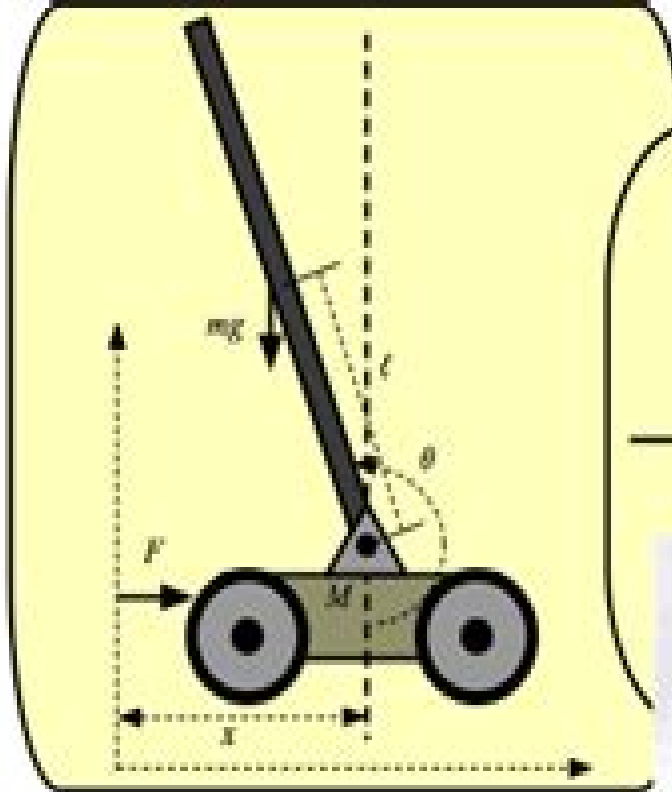




$$\begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \\ \dot{x}_3 \\ \dot{x}_4 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & \frac{-(J+ml^2)b}{J(M+m)+Mml^2} & 0 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & \frac{-mlb}{J(M+m)+Mml^2} & \frac{mgl(M+m)}{J(M+m)+Mml^2} & 0 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4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

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

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**Harry L. Trentelman, Anton A.
Stoorvogel, Malo Hautus**



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Introduction to Mathematical Systems Theory Christiaan Heij, André C.M. Ran, Frederik van Schagen, 2021-02-17 This book provides an introduction to the theory of linear systems and control for students in business mathematics econometrics computer science and engineering The focus is on discrete time systems which are the most relevant in business applications as opposed to continuous time systems requiring less mathematical preliminaries The subjects treated are among the central topics of deterministic linear system theory controllability observability realization theory stability and stabilization by feedback LQ optimal control theory Kalman filtering and LQC control of stochastic systems are also discussed as are modeling time series analysis and model specification along with model validation This second edition has been updated and slightly expanded In addition supplementary material containing the exercises is now available on the Springer Link s book website

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