Problem 1. (Transformation to controllable canonical form). Consider the following thirdorder SISO LTI system

$$\dot{x} = Ax + Bu, \quad x \in \mathbb{R}^3, \ u \in \mathbb{R}^1$$
 (AB-CLTI)

Assume that the characteristic polynomial of A is given by

$$det(sI - A) = s^3 + \alpha_1 s^2 + \alpha_2 s + \alpha_3$$

and consider the 3×3 matrix

$$T := C \begin{bmatrix} 1 & \alpha_1 & \alpha_2 \\ 0 & 1 & \alpha_1 \\ 0 & 0 & 1 \end{bmatrix}$$

where C is the system's controllability matrix.

(a) Show that the following equality holds:

$$B=T\left[\begin{array}{c}1\\0\\0\end{array}\right]$$

(b) Show that the following equality holds:

$$AT = T \begin{bmatrix} -\alpha_1 & -\alpha_2 & -\alpha_3 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{bmatrix}$$

- (c) Show that if the system (AB-CLTI) is controllable, then T is a nonsingular matrix.
- (d) Combining parts (a)-(c), you showed that, if the system (AB-CLTI) is controllable, then the matrix T given above can be viewed as a similarity transformation that transforms the system into the controllable canonical form

$$T^{-1}AT = \left[\begin{array}{ccc} -\alpha_1 & -\alpha_2 & -\alpha_3 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{array} \right], \quad T^{-1}B = \left[\begin{array}{c} 1 \\ 0 \\ 0 \end{array} \right].$$

Use this to find the similarity transformation that transforms the following pair into the controllable canonical form

$$A := \left[\begin{array}{ccc} 6 & 4 & 1 \\ -5 & -4 & 0 \\ -4 & -3 & -1 \end{array} \right], \quad B := \left[\begin{array}{c} 1 \\ -1 \\ -1 \end{array} \right].$$

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Handbook of Hybrid Systems Control Jan Lunze, Françoise Lamnabhi-Lagarrigue, 2009-10-15 Setting out core theory and reviewing a range of new methods theoretical problems and applications this handbook shows how hybrid dynamical

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Advances in Distributed Parameter Systems Jean Auriol, Joachim Deutscher, Guilherme Mazanti, Giorgio Valmorbida, 2022-04-24 The proposed book presents recent breakthroughs for the control of distributed parameter systems and follows on from a workshop devoted to this topic It introduces new and unified visions of the challenging control problems raised by distributed parameter systems The book collects contributions written by prominent international experts in the control community addressing a wide variety of topics It spans the full range from theoretical research to practical implementation and follows three traverse axes emerging ideas in terms of control strategies energy shaping prediction based control numerical control input saturation theoretical concepts for interconnected systems with potential non linear actuation dynamics advanced applications cable operated elevators traffic networks and numerical aspects Cutting edge experts in the field contributed in this volume 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