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

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

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:

$$B = T \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$

(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

$$T^{-1}AT = \begin{bmatrix} -\alpha_1 & -\alpha_2 & -\alpha_3 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{bmatrix}, \qquad T^{-1}B = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}.$$

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

$$A := \begin{bmatrix} 6 & 4 & 1 \\ -5 & -4 & 0 \\ -4 & -3 & -1 \end{bmatrix}, \qquad B := \begin{bmatrix} 1 \\ -1 \\ -1 \end{bmatrix}.$$

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Saito,2013-12-23 Theoretical tools and insights from discrete mathematics theoretical computer science and topology now play essential roles in our understanding of vital biomolecular processes The related methods are now employed in various fields of mathematical biology as instruments to zoom in on processes at a molecular level This book contains expository chapters on how contemporary models from discrete mathematics in domains such as algebra combinatorics and graph and knot theories can provide perspective on biomolecular problems ranging from data analysis molecular and gene arrangements and structures and knotted DNA embeddings via spatial graph models to the dynamics and kinetics of molecular interactions The contributing authors are among the leading scientists in this field and the book is a reference for researchers in mathematics and theoretical computer science who are engaged with modeling molecular and biological phenomena using discrete methods It may also serve as a guide and supplement for graduate courses in mathematical biology or bioinformatics introducing nontraditional aspects of mathematical biology   *Hybrid Systems with Constraints* Jamal Daafouz,Sophie Tarbouriech,Mario Sigalotti,2013-05-06 Control theory is the main subject of this title in particular analysis and control design for hybrid dynamic systems The notion of hybrid systems offers a strong theoretical and unified framework to cope with the modeling analysis and control design of systems where both continuous and discrete dynamics interact The theory of hybrid systems has been the subject of intensive research over the last decade and a large number of diverse and challenging problems have been investigated Nevertheless many important mathematical problems remain open This book is dedicated mainly to hybrid systems with constraints taking constraints into account in a dynamic system description has always been a critical issue in control New tools are provided here for stability analysis and control design for hybrid systems with operating constraints and performance specifications Contents 1 Positive Systems Discretization with Positivity and Constraints Patrizio Colaneri Marcello Farina Stephen Kirkland Riccardo Scattolini and Robert Shorten 2 Advanced Lyapunov Functions for Lur e Systems Carlos A Gonzaga Marc Jungers and Jamal Daafouz 3 Stability of Switched DAEs Stephan Trenn 4 Stabilization of Persistently Excited Linear Systems Yacine Chitour Guilherme Mazanti and Mario Sigalotti 5 Hybrid Coordination of Flow Networks Claudio De Persis Paolo Frasca 6 Control of Hybrid Systems An Overview of Recent Advances Ricardo G Sanfelice 7 Exponential Stability for Hybrid Systems with Saturations Mirko Fiacchini Sophie Tarbouriech Christophe Prieur 8 Reference Mirroring for Control with Impacts Fulvio Forni Andrew R Teel Luca Zaccarian About the Authors Jamal Daafouz is an expert in the area of switched and polytopic systems and has published several major results in leading journals IEEE TAC Automatica Systems and Control Letters etc He serves as an Associate Editor for the key journal IEEE TAC and is a member of the Editorial Board of the IEEE CSS society Sophie Tarbouriech is an expert in the area of nonlinear systems with constraints and has published several major results in leading journals IEEE TAC Automatica Systems and Control Letters etc and books She is a member of the Editorial Board of the IEEE CSS society and has also served as an Associate Editor for the key journal IEEE TAC Mario Sigalotti is an expert in applied mathematics and switched

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