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

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

Linear Systems Theory Hespanha Solutions

Michael Malisoff,Frédéric Mazenc

Linear Systems Theory Hespanha Solutions:

Linear Systems Theory João P. Hespanha,2018-02-13 A fully updated textbook on linear systems theory Linear systems theory is the cornerstone of control theory and a well established discipline that focuses on linear differential equations from the perspective of control and estimation This updated second edition of Linear Systems Theory covers the subject s key topics in a unique lecture style format making the book easy to use for instructors and students Jo o Hespanha looks at system representation stability controllability and state feedback observability and state estimation and realization theory He provides the background for advanced modern control design techniques and feedback linearization and examines advanced foundational topics such as multivariable poles and zeros and LQG LQR The textbook presents only the most essential mathematical derivations and places comments discussion and terminology in sidebars so that readers can follow the core material easily and without distraction Annotated proofs with sidebars explain the techniques of proof construction including contradiction contraposition cycles of implications to prove equivalence and the difference between necessity and sufficiency Annotated theoretical developments also use sidebars to discuss relevant commands available in MATLAB allowing students to understand these tools This second edition contains a large number of new practice exercises with solutions Based on typical problems these exercises guide students to succinct and precise answers helping to clarify issues and consolidate knowledge The book s balanced chapters can each be covered in approximately two hours of lecture time simplifying course planning and student review Easy to use textbook in unique lecture style format Sidebars explain topics in further detail Annotated proofs and discussions of MATLAB commands Balanced chapters can each be taught in two hours of course lecture New practice exercises with solutions included   *Solutions Manual to Linear Systems Theory* João P. Hespanha,2009-10-01   Solutions Manual for Linear Systems Theory Dan Liu,Ferenc Szidarovszky,Terry Bahill,1992-07-01

Hybrid Systems: Computation and Control Alberto Bemporad,Giorgio C Buttazzo,Antonio Bicchi,2007-05-31 This book constitutes the refereed proceedings of the 10th International Conference on Hybrid Systems Computation and Control HSCC 2007 held in Pisa Italy in April 2007 Among the topics addressed are models of heterogeneous systems computability and complexity issues real time computing and control embedded and resource aware control control and estimation over wireless networks and programming languages support and implementation   **Unsolved Problems in Mathematical Systems and Control Theory** Vincent D. Blondel,Alexandre Megretski,2009-04-11 This book provides clear presentations of more than sixty important unsolved problems in mathematical systems and control theory Each of the problems included here is proposed by a leading expert and set forth in an accessible manner Covering a wide range of areas the book will be an ideal reference for anyone interested in the latest developments in the field including specialists in applied mathematics engineering and computer science The book consists of ten parts representing various problem areas and each chapter sets forth a different problem presented by a researcher in the particular area and in the same way description of the problem

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here for stability analysis and control design for hybrid systems with operating constraints and performance specifications

New Perspectives and Applications of Modern Control Theory Julio B. Clempner,Wen Yu,2017-09-30 This edited monograph contains research contributions on a wide range of topics such as stochastic control systems adaptive control sliding mode control and parameter identification methods The book also covers applications of robust and adaptice control to chemical and biotechnological systems This collection of papers commemorates the 70th birthday of Dr Alexander S Poznyak   **Hybrid Systems: Computation and Control** Joao Hespanha,2006-03-20 This book constitutes the refereed proceedings of the 9th International Workshop on Hybrid Systems Computation and Control HSCC 2006 held in Santa Barbara CA USA in March 2006 The 39 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 79 submissions Among the topics addressed are tools for analysis and verification control and optimization modeling engineering applications and emerging directions in programming language support and implementation The papers focus on modeling analysis and implementation of dynamic and reactive systems involving both discrete and continuous behaviors   *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 systems can be modelled and understood Sixty expert authors involved in the recent research activities and industrial application studies provide practical insights on topics ranging from the theoretical investigations over computer aided design to applications in energy management and the process industry Structured into three parts the book opens with a thorough introduction to hybrid systems theory illustrating new dynamical phenomena through numerous examples Part II then provides a survey of key tools and tool integration activities Finally Part III is dedicated to applications implementation issues and system integration considering different domains such as industrial control automotive systems and digital networks Three running examples are referred to throughout the book together with numerous illustrations helping both researchers and industry professionals to understand complex theory recognise problems and find appropriate solutions   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 making it a valuable reference

source for control practitioners graduate students and scientists researching practical and theoretical solutions to the challenging problems raised by distributed parameter systems **Constructions of Strict Lyapunov Functions** Michael Malisoff,Frédéric Mazenc,2009-06-13 Converse Lyapunov function theory guarantees the existence of strict Lyapunov functions in many situations but the functions it provides are often abstract and nonexplicit and therefore may not lend themselves to engineering applications Often even when a system is known to be stable one still needs explicit Lyapunov functions however once an appropriate strict Lyapunov function has been constructed many robustness and stabilization problems can be solved through standard feedback designs or robustness arguments Non strict Lyapunov functions are often readily constructed This book contains a broad repertoire of Lyapunov constructions for nonlinear systems focusing on methods for transforming non strict Lyapunov functions into strict ones Their explicitness and simplicity make them suitable for feedback design and for quantifying the effects of uncertainty Readers will benefit from the authors mathematical rigor and unifying design oriented approach as well as the numerous worked examples Calculus of Variations and Optimal Control Theory Daniel Liberzon,2012-01-08 This textbook offers a concise yet rigorous introduction to calculus of variations and optimal control theory and is a self contained resource for graduate students in engineering applied mathematics and related subjects Designed specifically for a one semester course the book begins with calculus of variations preparing the ground for optimal control It then gives a complete proof of the maximum principle and covers key topics such as the Hamilton Jacobi Bellman theory of dynamic programming and linear quadratic optimal control Calculus of Variations and Optimal Control Theory also traces the historical development of the subject and features numerous exercises notes and references at the end of each chapter and suggestions for further study Offers a concise yet rigorous introduction Requires limited background in control theory or advanced mathematics Provides a complete proof of the maximum principle Uses consistent notation in the exposition of classical and modern topics Traces the historical development of the subject Solutions manual available only to teachers Leading universities that have adopted this book include University of Illinois at Urbana Champaign ECE 553 Optimum Control Systems Georgia Institute of Technology ECE 6553 Optimal Control and Optimization University of Pennsylvania ESE 680 Optimal Control Theory University of Notre Dame EE 60565 Optimal Control **Advanced Topics in Control Systems Theory** Antonio Loría,Françoise Lamnabhi-Lagarrigue,Elena Panteley,2006-02-09 This book includes selected contributions by lecturers at the third annual Formation d Automatique de Paris It provides a well integrated synthesis of the latest thinking in nonlinear optimal control observer design stability analysis and structural properties of linear systems without the need for an exhaustive literature review The internationally known contributors to this volume represent many of the most reputable control centers in Europe *Cooperative Control of Multi-agent Systems* Guanglei Zhao,Hailong Cui,Changchun Hua,Shuang Liu,2024-03-23 This book focuses on stability analysis and control design approaches for multi agent systems under network induced constraints A hybrid system approach

is introduced to address the cooperative control problem of networked multi agent systems and several important topics such as asynchronous sampled data cooperative control hybrid event triggered cooperative control and reset based cooperative control are studied under the hybrid system framework The special feature of this book is that a hybrid systems approach is proposed for the cooperative control of multi agent systems which is beneficial for relaxing the conservativeness of stability analysis and network parameter computation Interested readers can learn a novel approach to cooperative control of multi agent systems and this book can benefit researchers engineers and graduate students in the fields of multi robot cooperation unmanned aerial vehicle formation control engineering etc **Linear Systems Theory** João P. Hespanha,2009-09-13 Linear systems theory is the cornerstone of control theory and a well established discipline that focuses on linear differential equations from the perspective of control and estimation In this textbook Jo o Hespanha covers the key topics of the field in a unique lecture style format making the book easy to use for instructors and students He looks at system representation stability controllability and state feedback observability and state estimation and realization theory He provides the background for advanced modern control design techniques and feedback linearization and examines advanced foundational topics such as multivariable poles and zeros and LQG LQR The textbook presents only the most essential mathematical derivations and places comments discussion and terminology in sidebars so that readers can follow the core material easily and without distraction Annotated proofs with sidebars explain the techniques of proof construction including contradiction contraposition cycles of implications to prove equivalence and the difference between necessity and sufficiency Annotated theoretical developments also use sidebars to discuss relevant commands available in MATLAB allowing students to understand these important tools The balanced chapters can each be covered in approximately two hours of lecture time simplifying course planning and student review Solutions to the theoretical and computational exercises are also available for instructors Easy to use textbook in unique lecture style format Sidebars explain topics in further detail Annotated proofs and discussions of MATLAB commands Balanced chapters can each be taught in two hours of course lecture Solutions to exercises available to instructors Feedback Stabilization of Controlled Dynamical Systems Nicolas Petit,2017-03-23 This book is a tribute to Professor Laurent Praly and follows on from a workshop celebrating the occasion of his 60th birthday It presents new and unified visions of the numerous problems that Laurent Praly has worked on in his prolific career adaptive control output feedback and observers stability and stabilization His main contributions are the central topic of this book The book collects contributions written by prominent international experts in the control community addressing a rich variety of topics emerging ideas advanced applications and theoretical concepts Organized in three sections the first section covers the field of adaptive control where Laurent Praly started his career The second section focuses on stabilization and output feedback which is also the topic of the second half of his career Lastly the third section presents the emerging research that will form Laurent Praly s scientific legacy *Solutions Manual for "Linear System Theory and Design, Third Edition"*

Chi-Tsong Chen,1998-08-01 This Solutions Manual is designed to accompany Linear System Theory and Design Third Edition by C T Chen and includes fully worked out solutions to problems in the main text It is available free to adopters of the text **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,2009

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