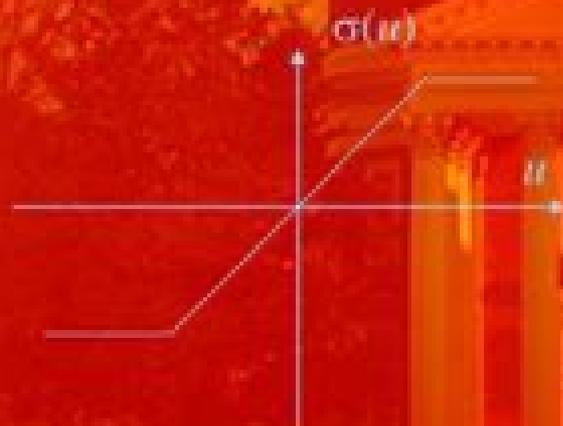


Control Systems with Actuator Saturation

$$\dot{x} = Ax + B\sigma(u) + Ew$$



Control Problems:

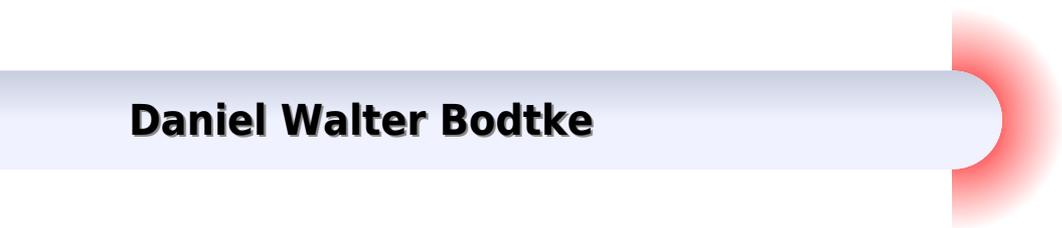
- Stabilization (large domain of attraction, fast convergence rate)
- Disturbance rejection (bounded energy disturbances, persistent disturbances, fixed frequency disturbances)
- Robustness to plant and actuator uncertainties

Analysis Problems (for a given control design):

- Estimation of the size of domain of attraction, convergence rate
- Estimation of disturbance rejection capability
- Estimation of tolerance to plant and actuator uncertainties

Control Systems With Actuator Saturation Analysis And Design

Daniel Walter Bodtke



Control Systems With Actuator Saturation Analysis And Design:

Control Systems with Actuator Saturation Tingshu Hu,Zongli Lin,2012-12-06 Saturation nonlinearities are ubiquitous in engineering systems In control systems every physical actuator or sensor is subject to saturation owing to its maximum and minimum limits A digital filter is subject to saturation if it is implemented in a finite word length format Saturation nonlinearities are also purposely introduced into engineering systems such as control systems and neural network systems Regardless of how saturation arises the analysis and design of a system that contains saturation nonlinearities is an important problem Not only is this problem theoretically challenging but it is also practically imperative This book intends to study control systems with actuator saturation in a systematic way It will also present some related results on systems with state saturation or sensor saturation Roughly speaking there are two strategies for dealing with actuator saturation The first strategy is to neglect the saturation in the first stage of the control design process and then to add some problem specific schemes to deal with the adverse effects caused by saturation These schemes known as anti windup schemes are typically introduced using ad hoc modifications and extensive simulations The basic idea behind these schemes is to introduce additional feedbacks in such a way that the actuator stays properly within its limits Most of these schemes lead to improved performance but poorly understood stability properties

Control Systems with Saturating Inputs Maria Letizia Corradini,Andrea Cristofaro,Fabio Giannoni,Giuseppe Orlando,2012-01-26 Saturation nonlinearities are ubiquitous in engineering systems every physical actuator or sensor is subject to saturation owing to its maximum and minimum limits Input saturation is an operating condition that is well known to the control community for its side effects which cause conventional controllers to lose their closed loop performance as well as control authority in stabilization Therefore the practical application of control theory cannot avoid taking into account saturation nonlinearities in actuators explicitly dealing with constraints in control design

Actuator Saturation Control Vikram Kapila,Karolos Grigoriadis,2002-02-20 Compiling the most significant advances from nearly a decade of research this reference compares and evaluates a wide variety of techniques for the design analysis and implementation of control methodologies for systems with actuator saturation The book presents efficient computational algorithms and new control paradigms for application in the

Analysis and Design of Networked Control Systems under Attacks Yuan Yuan,Hongjiu Yang,Lei Guo,Fuchun Sun,2018-09-21 This book adopts a systematic view of the control systems in cyber physical systems including the security control of the optimal control system security control of the non cooperative game system quantify the impact of the Denial of Service attacks on the optimal control system and the adaptive security control of the networked control systems Because the cyber physical system is a hybrid system it adopts cross layer approach to handle the security control of the CPS It presents a number of attack models according to the attack scenario and defense facilities and a number of cross layer co design methodologies to secure the control of CPS

Analysis and Design for Networked Teleoperation System Changchun

Hua, Yana Yang, Xian Yang, Xinping Guan, 2019-05-24 This book presents cutting edge results on stability analysis and control scheme designs for networked teleoperation systems It highlights new research on commonly encountered nonlinear teleoperation systems including the stability analysis of teleoperation systems with asymmetric time varying delays stability analysis of teleoperation systems with interval time delays and so on Moreover the book presents several high performance control scheme designs for teleoperation systems when the velocity is available and unavailable and for systems with nonlinear input The results presented here mark a substantial contribution to nonlinear teleoperation system theory robotic control theory and networked control system theory As such the book will be of interest to university researchers R D engineers and graduate students in control theory and control engineering who wish to learn about the core principles methods algorithms and applications of networked teleoperation systems robotic systems and nonlinear control systems

Stability and Stabilization of Linear Systems with Saturating Actuators Sophie Tarbouriech, Germain Garcia, João Manoel Gomes da Silva Jr., Isabelle Queinnec, 2011-08-13 This monograph details basic concepts and tools fundamental for the analysis and synthesis of linear systems subject to actuator saturation and developments in recent research The authors use a state space approach and focus on stability analysis and the synthesis of stabilizing control laws in both local and global contexts Different methods of modeling the saturation and behavior of the nonlinear closed loop system are given special attention Various kinds of Lyapunov functions are considered to present different stability conditions Results arising from uncertain systems and treating performance in the presence of saturation are given The text proposes methods and algorithms based on the use of linear programming and linear matrix inequalities for computing estimates of the basin of attraction and for designing control systems accounting for the control bounds and the possibility of saturation They can be easily implemented with mathematical software packages

Analysis and Synthesis of Fuzzy Control Systems Gang Feng, 2018-09-03 Fuzzy logic control FLC has proven to be a popular control methodology for many complex systems in industry and is often used with great success as an alternative to conventional control techniques However because it is fundamentally model free conventional FLC suffers from a lack of tools for systematic stability analysis and controller design To address this problem many model based fuzzy control approaches have been developed with the fuzzy dynamic model or the Takagi and Sugeno T S fuzzy model based approaches receiving the greatest attention Analysis and Synthesis of Fuzzy Control Systems A Model Based Approach offers a unique reference devoted to the systematic analysis and synthesis of model based fuzzy control systems After giving a brief review of the varieties of FLC including the T S fuzzy model based control it fully explains the fundamental concepts of fuzzy sets fuzzy logic and fuzzy systems This enables the book to be self contained and provides a basis for later chapters which cover T S fuzzy modeling and identification via nonlinear models or data Stability analysis of T S fuzzy systems Stabilization controller synthesis as well as robust H and observer and output feedback controller synthesis Robust controller synthesis of uncertain T S fuzzy systems Time delay T S fuzzy systems Fuzzy

model predictive control Robust fuzzy filtering Adaptive control of T S fuzzy systems A reference for scientists and engineers in systems and control the book also serves the needs of graduate students exploring fuzzy logic control It readily demonstrates that conventional control technology and fuzzy logic control can be elegantly combined and further developed so that disadvantages of conventional FLC can be avoided and the horizon of conventional control technology greatly extended Many chapters feature application simulation examples and practical numerical examples based on MATLAB

Analysis and Design of Nonlinear Control Systems Alessandro Astolfi, Lorenzo Marconi, 2007-11-13 This book is a tribute to Prof Alberto Isidori on the occasion of his 65th birthday Prof Isidori's prolific pioneering and high impact research activity has spanned over 35 years Throughout his career Prof Isidori has developed groundbreaking results has initiated research directions and has contributed towards the foundation of nonlinear control theory In addition his dedication to explain intricate issues and difficult concepts in a simple and rigorous way and to motivate young researchers has been instrumental to the intellectual growth of the nonlinear control community worldwide The volume collects 27 contributions written by a total of 52 researchers The principal author of each contribution has been selected among the researchers who have worked with Prof Isidori have influenced his research activity or have had the privilege and honour of being his PhD students The contributions address a significant number of control topics including theoretical issues advanced applications emerging control directions and tutorial works The diversity of the areas covered the number of contributors and their international standing provide evidence of the impact of Prof Isidori in the control and systems theory communities The book has been divided into six parts System Analysis Optimization Methods Feedback Design Regulation Geometric Methods and Asymptotic Analysis reflecting important control areas which have been strongly influenced and in some cases pioneered by Prof Isidori

Pneumatic Servo Systems Analysis Ling Zhao, Yuanqing Xia, Hongjiu Yang, Jinhui Zhang, 2022-02-10 This book focuses on pneumatic servo systems analysis control and application in robotic systems The pneumatic servo systems are composed by pneumatic artificial muscles or cylinders which are two important pneumatic actuators in industrial application The active disturbance rejection control technique is used effectively to solve strong nonlinearity and uncertain factors for the pneumatic servo systems Nonlinear feedback control back stepping control finite time control sliding mode control and several other control laws are proposed to make the pneumatic servo systems have better control performances The book establishes a fundamental framework for this topic while emphasizing the importance of integrated analysis The book is intended for undergraduate and graduate students who are interested in this field and engineers working on the applications of pneumatic servo systems Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

Journal of Guidance, Control, and Dynamics, 2007

Analysis of Actuator Saturation in Feedback Control Systems

Daniel Walter Bodtke,1998 *Mathematics of the Analysis and Design of Process Control* Pierre Borne,S. G. Tzafestas,Nour-Eddine Radhy,1992 Ample information reflecting the state of the art of the field of mathematics applied to the analysis and design of process control is presented in this volume It includes recent results concerning new methodologies applied to technological systems as well as non conventional control techniques and the presentation of significant examples of implementation R D and Research laboratory participants postgraduate students and engineers will all find this book to be invaluable

Fault Detection, Supervision and Safety of Technical Processes 2003 (SAFEPROCESS 2003) Marcel Staroswiecki,Eva Wu,2004-02-27 A three volume work bringing together papers presented at SAFEPROCESS 2003 including four plenary papers on statistical physical model based and logical model based approaches to fault detection and diagnosis as well as 178 regular papers

The Journal of the Astronautical Sciences ,2005 *Stability and Performance of Control Systems with Actuator Saturation* Yuanlong Li,Zongli Lin,2017-12-14 This monograph investigates the stability and performance of control systems subject to actuator saturation It presents new results obtained by both improving the treatment of the saturation function and constructing new Lyapunov functions In particular two improved treatments of the saturation function are described that exploit the intricate structural properties of its traditional convex hull representation The authors apply these treatments to the estimation of the domain of attraction and the finite gain L2 performance by using the quadratic Lyapunov function and the composite quadratic Lyapunov function Additionally an algebraic computation method is given for the exact determination of the maximal contractively invariant ellipsoid a level set of a quadratic Lyapunov function The authors conclude with a look at some of the problems that can be solved by the methods developed and described throughout the book Numerous step by step descriptions examples and simulations are provided to illustrate the effectiveness of their results *Stability and Performance of Control Systems with Actuator Saturation* will be an invaluable reference for graduate students researchers and practitioners in control engineering and applied mathematics

Controller Design for Linear Systems Subject to Actuator Saturation P. Tomas Larsson,1999 *Science in China* ,2007 **Journal of Dynamic Systems, Measurement, and Control** ,2007 *Progress in System and Robot Analysis and Control Design*

Spyros G. Tzafestas,1999-05-14 The fields of control and robotics are now at an advanced level of maturity both in theory and practice Numerous systems are used effectively in industrial production and other sectors of modern life This volume contains a well balanced collection of over fifty papers focusing on analysis and design problems The current trends and advances in the fields are reflected Topics covered include system analysis identification and stability optimal adaptive robust and QFT controller design design and application of driving simulators industrial robots and telemanipulators mobile service and legged robots virtual reality in robotics The book brings together important original results derived from a variety of academic and engineering environments Also it serves as a timely reference volume for the researcher and practitioner

IEEE Transactions on Circuits and Systems ,2006

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