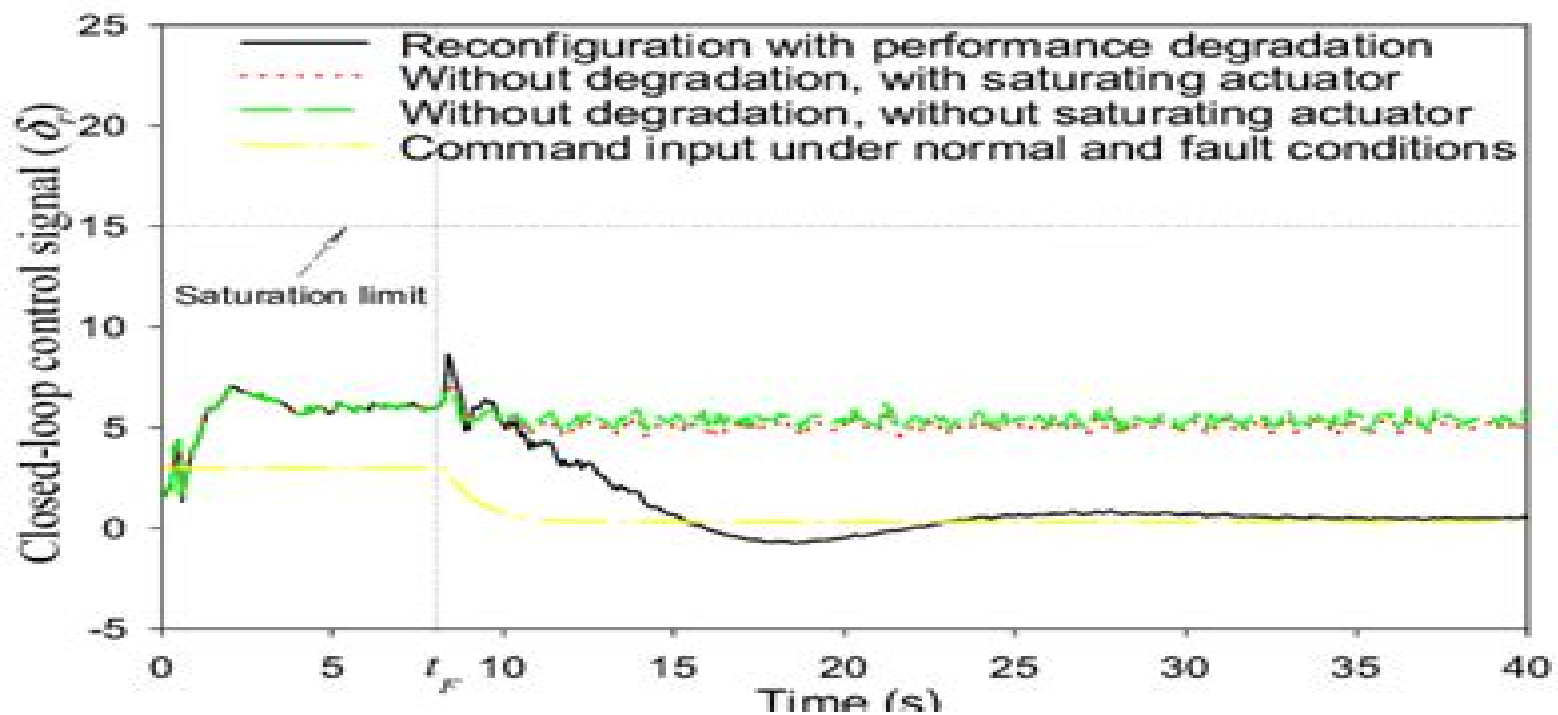
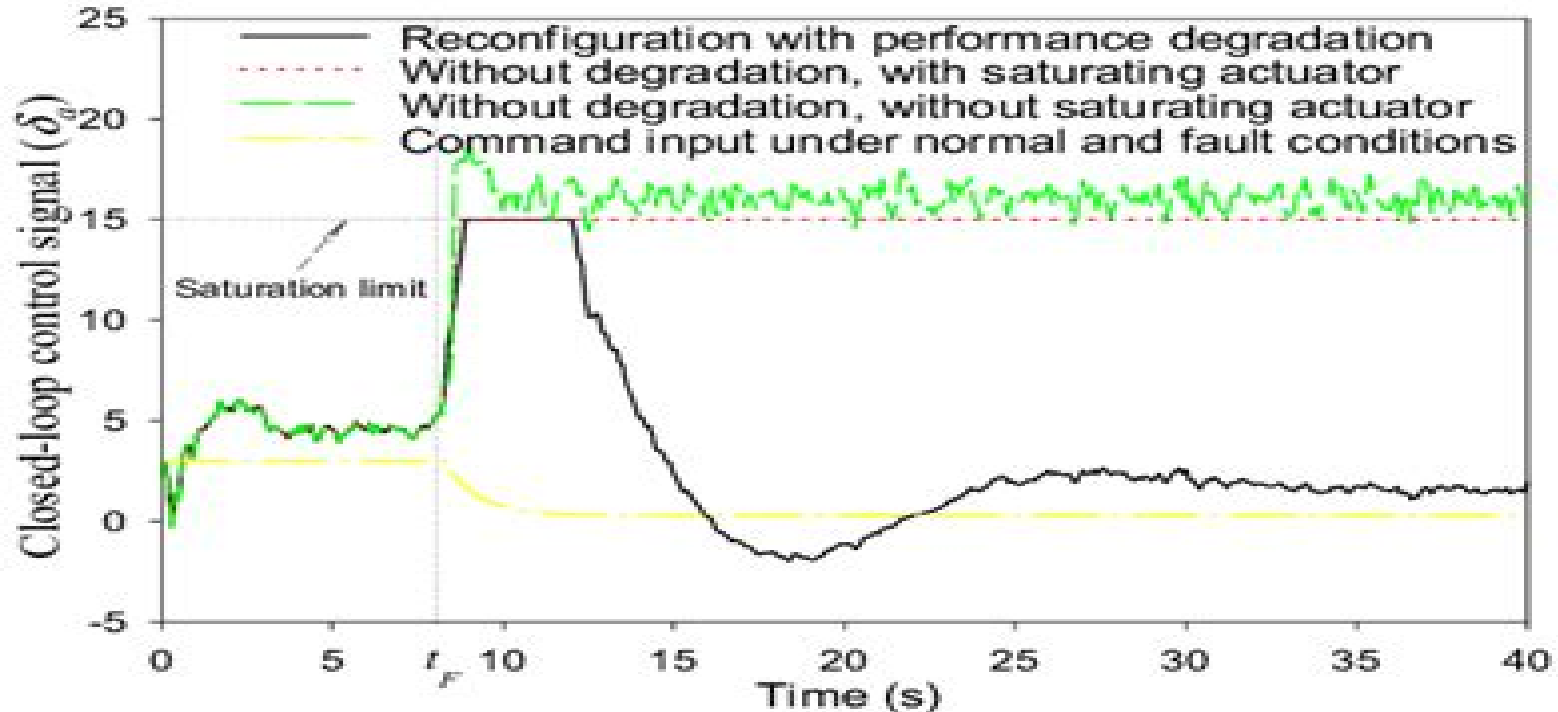




Actuator Saturation Control

Vikram Kapila, Karolos Grigoriadis



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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.

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

Stability and Performance of Control Systems with Actuator Saturation Yuanlong Li, Zongli Lin, 2017-11-28 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 L_2 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.

Analysis of Actuator Saturation in Feedback Control Systems Daniel Walter Bodtke, 1998

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 *The Control Handbook* William S. Levine, 1996-02-23 This is the biggest most comprehensive and most prestigious compilation of articles on control systems imaginable Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control Never before has such a massive amount of authoritative detailed accurate and well organized information been available in a single volume Absolutely everyone working in any aspect of systems and controls must have this book Actuator Saturation Control of LPV Systems and Systems with Rate and Amplitude Saturation Marco Antonio Soto, 2003 Keywords LPV linear matrix inequality sector bounded nonlinearity robust control gain scheduling anti windup compensation **Actuator Saturation Control of LPV Systems and Systems with Rate and Amplitude Saturation**, 2003 In this thesis we consider the design of anti windup compensators for exponentially unstable systems with actuator saturation of amplitude and rate as well as linear parameter varying systems A set of synthesis conditions for anti windup compensators are developed for each of the system types in which the effects of actuator saturation are modeled as sector bounded nonlinearities using traditional linear fractional transformations The performance criteria are the minimization of the induced L2 norm from disturbance input to error output as well as the minimization of controller windup due to actuator saturation Explicit construction formulae are provided for the direct construction of these anti windup compensators An exponentially unstable linearized model of an F8 aircraft is used to validate the results of the control analysis We present the main advantage of the two step anti windup controller design procedure the ease of implementation and the maintenance of high performance criteria in design **Techniques of Model-based Control** Coleman Brosilow, Babu Joseph, 2002 Annotation In this book two of the field s leading experts bring together powerful advances in model based control for chemical process engineering From start to finish Coleman Brosilow and Babu Joseph introduce practical approaches designed to solve real world problems not just theory The book contains extensive examples and exercises and an accompanying CD ROM contains hands on MATLAB files that supplement the examples and help readers solve the exercises a feature found in no other book on the topic Control Allocation for Spacecraft Under Actuator Faults Qinglei Hu, Bo

Li,Bing Xiao,Youmin Zhang,2021-03-13 This book provides a systematical and comprehensive description of some facets of modeling designing analyzing and exploring the control allocation and fault tolerant control problems for over actuated spacecraft attitude control system under actuator failures system uncertainties and disturbances The book intends to provide a unified platform for understanding and applicability of the fault tolerant attitude control and control allocation for different purposes in aerospace engineering and some related fields And it is particularly suited for readers who are interested to learn solutions in spacecraft attitude control system design and related engineering applications

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