

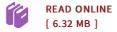
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Control Systems with Actuator Saturation: Analysis and Design

By Tingshu Hu, Zongli Lin

Springer-Verlag New York Inc., United States, 2013. Paperback. Book Condition: New. 235 x 155 mm. Language: English . Brand New Book. 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 or sensor saturation. Roughly speaking, there are two strategies for dealing with actuator sat- uration. 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...



Reviews

A brand new e book with a brand new standpoint. It really is simplified but unexpected situations in the 50 % of the publication. Your daily life period will likely be transform as soon as you full looking over this publication. -- Dr. Carmine Hammes

This published book is wonderful. It is one of the most incredible book we have go through. I realized this pdf from my i and dad advised this book to learn. -- Felicia Heidenreich