



# 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 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...



**READ ONLINE**  
[ 4.96 MB ]

## Reviews

*This book is really gripping and intriguing. it was writtern very perfectly and beneficial. I am easily will get a enjoyment of looking at a created ebook.*

-- **Jaeden Stiedemann Sr.**

*An extremely amazing ebook with lucid and perfect explanations. I was able to comprehended every little thing out of this written e ebook. Its been written in an extremely basic way which is simply right after i finished reading through this book in which in fact altered me, modify the way i believe.*

-- **Jose Ruecker**

## You May Also Like



### **Bullied: What Every Parent, Teacher, and Kid Needs to Know about Ending the Cycle of Fear**

HarperOne, United States, 2013. Paperback. Book Condition: New. Reprint. 201 x 132 mm. Language: English . Brand New Book. Winner of National Parenting Publications Award and Mom s Choice Award!Everybody knows how it feels to be ostracized, isolated or taunted, but most...



### **Bullied: What Every Parent, Teacher, and Kid Needs to Know about Ending the Cycle of Fear (Hardback)**

HarperCollins Publishers Inc, United States, 2012. Hardback. Book Condition: New. 231 x 160 mm. Language: English . Brand New Book. Winner of National Parenting Publications Award and Mom s Choice Award!Everybody knows how it feels to be ostracized, isolated or taunted, but...



### **Bullied: What Every Parent, Teacher, and Kid Needs to Know about Ending the Cycle of Fear**

Dreamscape Media, United States, 2015. CD-Audio. Book Condition: New. Unabridged. 142 x 124 mm. Language: English Brand New. The mother of a bullied first grader, popular blogger Carrie Goldman s inspiring true story triggered an outpouring of support from online communities around...



### **Weebies Family Halloween Night English Language: English Language British Full Colour**

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and Junior Children how to read with this...



### **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



### **Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School**

Book Condition: Brand New. Book Condition: Brand New.