

Sliding Mode Control

THEORY
AND APPLICATIONS

Christopher Edwards
and Sarah K. Spurgeon



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Sliding Mode Control Theory And Applications Series In Systems And Control

**Yuri Shtessel, Christopher
Edwards, Leonid Fridman, Arie Levant**



Sliding Mode Control Theory And Applications Series In Systems And Control:

Sliding Mode Control C Edwards, S Spurgeon, 1998-08-27 In the formation of any control problem there will be discrepancies between the actual plant and the mathematical model for controller design Sliding mode control theory seeks to produce controllers to overcome such mismatches This text provides the reader with a grounding in sliding mode control and is appropriate for the graduate with a basic knowledge of classical control theory and some knowledge of state space methods From this basis more advanced theoretical results are developed Two industrial case studies which present the results of sliding mode controller implementations are used to illustrate the successful practical application theory

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Sliding Modes after the first Decade of the 21st Century Leonid Fridman, Jaime Moreno, Rafael Iriarte, 2011-09-10 The book presents the newest results of the major world research groups working in the area of Variable Structure Systems and Sliding Mode Control VSS SMC The research activity of these groups is coordinated by the IEEE Technical Committee on Variable Structure Systems VSS and Sliding Modes SM The presented results include the reports of the research groups collaborating in a framework of the Uni n European Union M xico project of Fondo de Cooperaci n Internacional en Ciencia y Tecnolog a FONCICyT 93302 titled Automatization and Monitoring of Energy Production Processes via Sliding Mode Control The book starts with the overview of the sliding mode control concepts and algorithms that were developed and discussed in the last two decades The research papers are combined in three sections Part I VSS and SM Algorithms and their Analysis Part II SMC Design Part III Applications of VSS and SMC The book will be of interests of engineers researchers and graduate students working in the area of the control systems design Novel mathematical theories and engineering concepts of control systems are rigorously discussed and supported by numerous applications to practical tasks

Nonlinear Control Systems 2004 Frank Allgower, Michael Zeitz, 2005-02-02 *The Control Handbook (three volume set)* William S. Levine, 2018-10-08 At publication The Control Handbook immediately became the definitive resource that engineers working with modern control systems required Among its many accolades that first edition was cited

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Yuri Shtessel, Christopher Edwards, Leonid Fridman, Arie Levant, 2013-06-01 The sliding mode control methodology has proven effective in dealing with complex dynamical systems affected by disturbances uncertainties and unmodeled dynamics Robust control technology based on this methodology has been applied to many real world problems especially in the areas of aerospace control electric power systems electromechanical systems and robotics Sliding Mode Control and Observation represents the first textbook that starts with classical sliding mode control techniques and progresses toward newly developed higher order sliding mode control and observation algorithms and their applications The present volume addresses a range of sliding mode control issues including Conventional sliding mode controller and observer design Second order sliding mode controllers and differentiators Frequency domain analysis of conventional and second order sliding mode controllers Higher order sliding mode controllers and differentiators Higher order sliding mode observers Sliding mode disturbance observer based control Numerous applications including reusable launch vehicle and satellite formation control blood glucose regulation and car steering control are used as case studies Sliding Mode Control and Observation is aimed at graduate students with a basic knowledge of classical control theory and some knowledge of state space methods and nonlinear systems while being of interest to a wider audience of graduate students in electrical mechanical aerospace engineering and applied mathematics as well as researchers in electrical computer chemical civil mechanical aeronautical and industrial engineering applied mathematicians control engineers and physicists Sliding Mode Control and Observation provides the necessary tools for graduate students researchers and engineers to robustly control complex and uncertain nonlinear dynamical systems Exercises provided at the end of each chapter make this an ideal text for an advanced course

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Table of Contents Sliding Mode Control Theory And Applications Series In Systems And Control

1. Understanding the eBook Sliding Mode Control Theory And Applications Series In Systems And Control
 - The Rise of Digital Reading Sliding Mode Control Theory And Applications Series In Systems And Control
 - Advantages of eBooks Over Traditional Books
2. Identifying Sliding Mode Control Theory And Applications Series In Systems And Control
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sliding Mode Control Theory And Applications Series In Systems And Control
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sliding Mode Control Theory And Applications Series In Systems And Control
 - Personalized Recommendations
 - Sliding Mode Control Theory And Applications Series In Systems And Control User Reviews and Ratings
 - Sliding Mode Control Theory And Applications Series In Systems And Control and Bestseller Lists

5. Accessing Sliding Mode Control Theory And Applications Series In Systems And Control Free and Paid eBooks
 - Sliding Mode Control Theory And Applications Series In Systems And Control Public Domain eBooks
 - Sliding Mode Control Theory And Applications Series In Systems And Control eBook Subscription Services
 - Sliding Mode Control Theory And Applications Series In Systems And Control Budget-Friendly Options
6. Navigating Sliding Mode Control Theory And Applications Series In Systems And Control eBook Formats
 - ePub, PDF, MOBI, and More
 - Sliding Mode Control Theory And Applications Series In Systems And Control Compatibility with Devices
 - Sliding Mode Control Theory And Applications Series In Systems And Control Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sliding Mode Control Theory And Applications Series In Systems And Control
 - Highlighting and Note-Taking Sliding Mode Control Theory And Applications Series In Systems And Control
 - Interactive Elements Sliding Mode Control Theory And Applications Series In Systems And Control
8. Staying Engaged with Sliding Mode Control Theory And Applications Series In Systems And Control
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sliding Mode Control Theory And Applications Series In Systems And Control
9. Balancing eBooks and Physical Books Sliding Mode Control Theory And Applications Series In Systems And Control
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sliding Mode Control Theory And Applications Series In Systems And Control
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sliding Mode Control Theory And Applications Series In Systems And Control
 - Setting Reading Goals Sliding Mode Control Theory And Applications Series In Systems And Control
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sliding Mode Control Theory And Applications Series In Systems And Control
 - Fact-Checking eBook Content of Sliding Mode Control Theory And Applications Series In Systems And Control
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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