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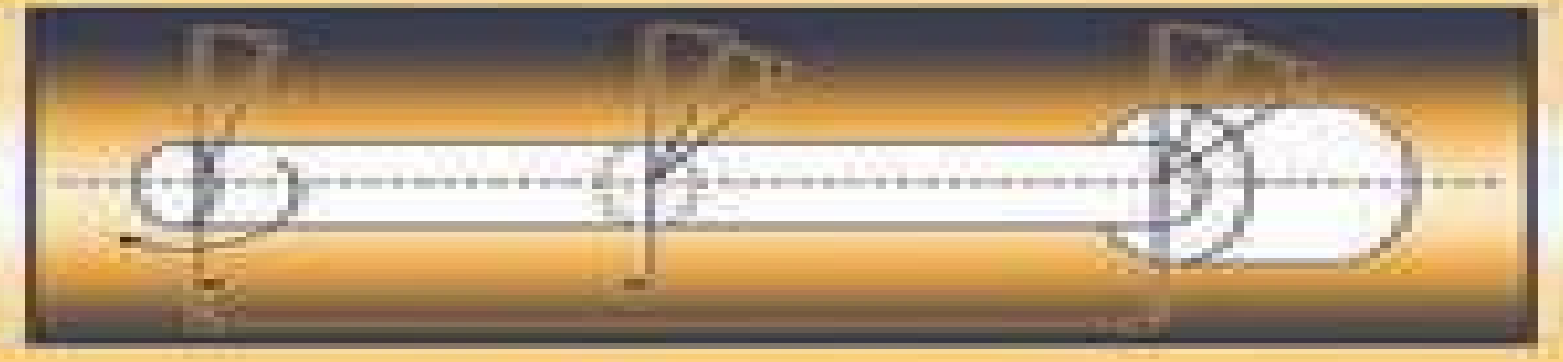
Sliding Mode Control in Electro-Mechanical Systems

Second Edition



Vadim Utkin
Jürgen Guldner
Jingxin Shi

CRC Press

Sliding Mode Control In Electromechanical Systems

Heide Brandstädter

Sliding Mode Control In Electromechanical Systems:

Sliding Mode Control in Electro-Mechanical Systems Vadim Utkin,Juergen Guldner,Jingxin Shi,2017-12-19 Apply Sliding Mode Theory to Solve Control Problems Interest in SMC has grown rapidly since the first edition of this book was published This second edition includes new results that have been achieved in SMC throughout the past decade relating to both control design methodology and applications In that time Sliding Mode Control SMC has continued to gain increasing importance as a universal design tool for the robust control of linear and nonlinear electro mechanical systems Its strengths result from its simple flexible and highly cost effective approach to design and implementation Most importantly SMC promotes inherent order reduction and allows for the direct incorporation of robustness against system uncertainties and disturbances These qualities lead to dramatic improvements in stability and help enable the design of high performance control systems at low cost Written by three of the most respected experts in the field including one of its originators this updated edition of Sliding Mode Control in Electro Mechanical Systems reflects developments in the field over the past decade It builds on the solid fundamentals presented in the first edition to promote a deeper understanding of the conventional SMC methodology and it examines new design principles in order to broaden the application potential of SMC SMC is particularly useful for the design of electromechanical systems because of its discontinuous structure In fact where the hardware of many electromechanical systems such as electric motors prescribes discontinuous inputs SMC becomes the natural choice for direct implementation This book provides a unique combination of theory implementation issues and examples of real life applications reflective of the authors own industry leading work in the development of robotics automobiles and other technological breakthroughs **Sliding Mode Control in Electro-Mechanical Systems** Vadim Utkin,Juergen Guldner,Jingxin Shi,2017-12-19 Apply Sliding Mode Theory to Solve Control Problems Interest in SMC has grown rapidly since the first edition of this book was published This second edition includes new results that have been achieved in SMC throughout the past decade relating to both control design methodology and applications In that time Sliding Mode Control SMC has continued to gain increasing importance as a universal design tool for the robust control of linear and nonlinear electro mechanical systems Its strengths result from its simple flexible and highly cost effective approach to design and implementation Most importantly SMC promotes inherent order reduction and allows for the direct incorporation of robustness against system uncertainties and disturbances These qualities lead to dramatic improvements in stability and help enable the design of high performance control systems at low cost Written by three of the most respected experts in the field including one of its originators this updated edition of Sliding Mode Control in Electro Mechanical Systems reflects developments in the field over the past decade It builds on the solid fundamentals presented in the first edition to promote a deeper understanding of the conventional SMC methodology and it examines new design principles in order to broaden the application potential of SMC SMC is particularly useful for the design of electromechanical systems

because of its discontinuous structure In fact where the hardware of many electromechanical systems such as electric motors prescribes discontinuous inputs SMC becomes the natural choice for direct implementation This book provides a unique combination of theory implementation issues and examples of real life applications reflective of the authors own industry leading work in the development of robotics automobiles and other technological breakthroughs **Sliding Mode Control of Electromechanical Systems** Heide Brandstädter,2009 Sliding Mode Control of Electromechanical Systems Heide Brandstädter,2009 *Variable Structure Systems* Asif Sabanovic,Leonid M. Fridman,Sarah K. Spurgeon,2004-10-08 This unique book fulfils the definite need for an accessible book on variable structure systems and also provides the very latest results in research on this topic Divided into three parts basics of sliding mode control new trends in sliding mode control and applications of sliding mode control the book contains many numerical design examples so that readers can quickly understand the design methodologies and their applications to practical problems Primarily aimed at students and researchers in the field the book will also be useful for practising control engineers **Sliding Mode Control and Observation** 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 taught in control theory **Sliding Mode Control Using Novel Sliding Surfaces** B. Bandyopadhyay,Fulwani Deepak,Kyung-Soo Kim,2009-09-23 AfterasurveypaperbyUtkininthelate1970s

slidingmodecontrolmeth ologies emerged as an e ective tool to tackle uncertainty and disturbances which are inevitable in most of the practical systems Sliding mode control is a particular class of variable structure control which was introduced by Emel yanov and his colleagues The design paradigms of sliding mode c trol has now become a mature design technique for the design of robust c troller of uncertain system In sliding mode technique the state trajectory of the system is constrained on a chosen manifold or within some neighb hood thereof by an appropriatecontrolaction This manifold is also called a switching surface or a sliding surface During sliding mode system dynamics is governed by the chosen manifold which results in a well celebrated inva ance property towards certain classes of disturbance and model mismatches The purpose of this monograph is to give a di erent dimension to sl ing surface design to achieve high performance of the system Design of the switching surface is vital because the closed loop dynamics is governed by the parameters of the sliding surface Therefore sliding surface should be signed to meet the closed loop speci cations Many systems demand high performance with robustness To address this issue of achieving high perf mance with robustness we propose nonlinear surfaces for di erent classes of systems The nonlinear surface is designed such that it changes the system s closed loop damping ratio from its initial low value to a nal high value **Advances in Neural Networks - ISNN 2007** Derong Liu,Shumin Fei,Zeng-Guang Hou,Huaguang Zhang,Changyin Sun,2007-07-14 This book is part of a three volume set that constitutes the refereed proceedings of the 4th International Symposium on Neural Networks ISNN 2007 held in Nanjing China in June 2007 Coverage includes neural networks for control applications robotics data mining and feature extraction chaos and synchronization support vector machines fault diagnosis detection image video processing and applications of neural networks *Advances and Applications in Sliding Mode Control systems* Ahmad Taher Azar,Quanmin Zhu,2014-11-01 This book describes the advances and applications in Sliding mode control SMC which is widely used as a powerful method to tackle uncertain nonlinear systems The book is organized into 21 chapters which have been organised by the editors to reflect the various themes of sliding mode control The book provides the reader with a broad range of material from first principles up to the current state of the art in the area of SMC and observation presented in a clear matter of fact style As such it is appropriate for graduate students with a basic knowledge of classical control theory and some knowledge of state space methods and nonlinear systems The resulting design procedures are emphasized using Matlab Simulink software

Modern Sliding Mode Control Theory Giorgio Bartolini,Leonid Fridman,Alessandro Pisano,Elio Usai,2008-04-05 This concise book covers modern sliding mode control theory The authors identify key contributions defining the theoretical and applicative state of the art of the sliding mode control theory and the most promising trends of the ongoing research activities

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Table of Contents Sliding Mode Control In Electromechanical Systems

1. Understanding the eBook Sliding Mode Control In Electromechanical Systems
    - The Rise of Digital Reading Sliding Mode Control In Electromechanical Systems
    - Advantages of eBooks Over Traditional Books
2. Identifying Sliding Mode Control In Electromechanical Systems
    - 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 In Electromechanical Systems
    - User-Friendly Interface
4. Exploring eBook Recommendations from Sliding Mode Control In Electromechanical Systems
    - Personalized Recommendations
    - Sliding Mode Control In Electromechanical Systems User Reviews and Ratings
    - Sliding Mode Control In Electromechanical Systems and Bestseller Lists
5. Accessing Sliding Mode Control In Electromechanical Systems Free and Paid eBooks

- Sliding Mode Control In Electromechanical Systems Public Domain eBooks
- Sliding Mode Control In Electromechanical Systems eBook Subscription Services
- Sliding Mode Control In Electromechanical Systems Budget-Friendly Options

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