



# Sliding Mode Control

**Bijnan Bandyopadhyay, Abhisek K.  
Behera**



## **Sliding Mode Control:**

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 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 In Engineering Wilfrid Perruquetti, Jean-Pierre Barbot, 2002-01-29 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p-adic numbers and related structures Develops a new theory for parabolic equations *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 **Emerging Trends in Sliding Mode Control**

Axaykumar Mehta, Bijan Bandyopadhyay, 2020-12-21 This book compiles recent developments on sliding mode control theory and its applications Each chapter presented in the book proposes new dimension in the sliding mode control theory such as higher order sliding mode control event triggered sliding mode control networked control higher order discrete time sliding mode control and sliding mode control for multi agent systems Special emphasis has been given to practical solutions to design involving new types of sliding mode control This book is a reference guide for graduate students and researchers working in the domain for designing sliding mode controllers The book is also useful to professional engineers working in the field to design robust controllers for various applications **Road Map for Sliding Mode Control Design** Vadim

Utkin, Alex Poznyak, Yury V. Orlov, Andrey Polyakov, 2020-04-13 This book is devoted to control of finite and infinite dimensional processes with continuous time and discrete time control focusing on suppression problems and new methods of adaptation applicable for systems with sliding motions only Special mathematical methods are needed for all the listed control tasks These methods are addressed in the initial chapters with coverage of the definition of the multidimensional sliding modes the derivation of the differential equations of those motions and the existence conditions Subsequent chapters discuss various areas of further research The book reflects the consensus view of the authors regarding the current status of SMC theory It is addressed to a broad spectrum of engineers and theoreticians working in diverse areas of control theory

and applications It is well suited for use in graduate and postgraduate courses in such university programs as Electrical Engineering Control of Nonlinear Systems and Mechanical Engineering

**Sliding Mode Control** Andrzej Bartoszewicz,2011-04-11 The main objective of this monograph is to present a broad range of well worked out recent application studies as well as theoretical contributions in the field of sliding mode control system analysis and design The contributions presented here include new theoretical developments as well as successful applications of variable structure controllers primarily in the field of power electronics electric drives and motion steering systems They enrich the current state of the art and motivate and encourage new ideas and solutions in the sliding mode control area

Variable-Structure Systems and Sliding-Mode Control Martin Steinberger,Martin Horn,Leonid Fridman,2020-02-10 The book covers the latest theoretical results and sophisticated applications in the field of variable structure systems and sliding mode control This book is divided into four parts Part I discusses new higher order sliding mode algorithms including new homogeneous controllers and differentiators Part II then explores properties of continuous sliding mode algorithms such as saturated feedback control reaching time and orbital stability Part III is focused on the usage of variable structure systems VSS controllers for solving other control problems for example unmatched disturbances Finally Part IV discusses applications of VSS these include applications within power electronics and vehicle platooning Variable structure Systems and Sliding Mode Control will be of interest to academic researchers students and practising engineers

*Advances in Discrete-Time Sliding Mode Control* Ahmadreza Argha,Steven Su,Li Li,Hung Tan Nguyen,Branko George Celler,2018-06-14 The focus of this book is on the design of a specific control strategy using digital computers This control strategy referred to as Sliding Mode Control SMC has its roots in continuous time relay control This book aims to explain recent investigations output in the field of discrete time sliding mode control DSMC The book starts by explaining a new robust LMI based state feedback and observer based output feedback DSMC including a new scheme for sparsely distributed control It includes a novel event driven control mechanism called actuator based event driven scheme using a synchronized rate biofeedback system for heart rate regulation during cycle ergometer Key Features Focuses on LMI based SMC sliding mode control for uncertain discrete time system using novel nonlinear components in the control law Makes reader understand the techniques of designing a discrete controller based on the flexible sliding functions Proposes new algorithms for sparsifying control and observer network through multi objective optimization frameworks Discusses a framework for the design of SMC for two dimensional systems along with analyzing the controllability of two dimensional systems Discusses novel schemes for sparsifying the control network

**Advances in Variable Structure Systems and Sliding Mode Control—Theory and Applications** Shihua Li,Xinghuo Yu,Leonid Fridman,Zhihong Man,Xiangyu Wang,2017-08-10 This book reflects the latest developments in variable structure systems VSS and sliding mode control SMC highlighting advances in various branches of the VSS SMC field e g from conventional SMC to high order SMC from the continuous time domain to the discrete time domain from theories to

applications etc The book consists of three parts and 16 chapters in the first part new VSS SMC algorithms are proposed and their properties are analyzed while the second focuses on the use of VSS SMC techniques to solve a variety of control problems the third part examines the applications of VSS SMC to real time systems The book introduces postgraduates and researchers to the state of the art in VSS SMC field including the theory methodology and applications Relative academic disciplines include Automation Mathematics Electrical Engineering Mechanical Engineering Instrument Science and Engineering Electronic Engineering Computer Science and Technology Transportation Engineering Energy and Power Engineering etc

*Stabilization and Control of Fractional Order Systems: A Sliding Mode Approach* Bijan Bandyopadhyay, Shyam Kamal, 2014-07-22 In the last two decades fractional differential equations have been used more frequently in physics signal processing fluid mechanics viscoelasticity mathematical biology electro chemistry and many others It opens a new and more realistic way to capture memory dependent phenomena and irregularities inside the systems by using more sophisticated mathematical analysis This monograph is based on the authors work on stabilization and control design for continuous and discrete fractional order systems The initial two chapters and some parts of the third chapter are written in tutorial fashion presenting all the basic concepts of fractional order system and a brief overview of sliding mode control of fractional order systems The other parts contain deal with robust finite time stability of fractional order systems integral sliding mode control of fractional order systems co operative control of multi agent systems modeled as fractional differential equation robust stabilization of discrete fractional order systems high performance control using soft variable structure control and contraction analysis by integer and fractional order infinitesimal variations

**Sliding Mode Control** Christopher Edwards, Sarah K. 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

**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

**Control and Automation** Dominik Slezak, Tai-hoon Kim, Adrian Stoica, Byeong-Ho Kang, 2009-11-24 As future generation information technology FGIT becomes specialized and fragmented it is easy to lose sight that many topics in FGIT have common threads and because of this advances in one discipline may be transmitted to others Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole Of particular interest are hybrid solutions that combine ideas taken from multiple disciplines in order to achieve something more significant than the sum of the individual parts Through such hybrid philosophy a new principle can be discovered which has the

propensity to propagate throughout multifaceted disciplines FGIT 2009 was the first mega conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT conducted by separate scientific committees but coordinated in order to expose the most important contributions It included the following international conferences Advanced Software Engineering and Its Applications ASEA Bio Science and Bio Technology BSBT Control and Automation CA Database Theory and Application DTA Disaster Recovery and Business Continuity DRBC published independently Future Generation Communication and Networking FGCN that was combined with Advanced Communication and Networking ACN Grid and Distributed Computing GDC Multimedia Computer Graphics and Broadcasting MulGraB Security Technology SecTech Signal Processing Image Processing and Pattern Recognition SIP and e Service Science and Technology UNESST

**Sliding-Mode Control and Variable-Structure Systems** Tiago Roux Oliveira, Leonid Fridman, Liu Hsu, 2023-10-31 This book reflects the latest developments in sliding mode control SMC and variable structure systems VSS comprising contributions by leading researchers and an international range of experts Such contributions highlight advances in various branches of the field conventional and higher order SMC with continuous and discrete time implementation and theory and applications both receive attention The book consists of six parts In the first new SMC VSS algorithms are proposed and their properties are analyzed The second part focuses on the use of observers to solve the estimation and output feedback control problems The third part discusses the discretization aspects of SMC algorithms Parts IV and V provide important insights on the use of adaptation laws for non overestimated control gains and chattering alleviation The last part examines the applications of these SMC VSS ideas to real world systems Sliding Mode Control and Variable Structure Systems introduces postgraduates and researchers to the state of the art in the field It includes theory methods and applications relevant to workers in disciplines including control automation applied mathematics electrical and mechanical engineering instrumentation electronics computer science robotics transportation and power engineering Its clear style and deep exposition help readers to keep in touch with tools that are thanks to the robustness and insensitivity to perturbations of the SMC VSS paradigm among the most efficient for dealing with uncertain systems

**Sliding Mode Control Using Novel Sliding Surfaces** B. Bandyopadhyay, Fulwani Deepak, Kyung-Soo Kim, 2009-09-23 After a survey paper by Utkin in the late 1970s sliding mode control methodologies emerged as an effective 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 control has now become a mature design technique for the design of robust controller of uncertain system In sliding mode technique the state trajectory of the system is constrained on a chosen manifold or within some neighborhood thereof by an appropriate control action 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 invariance property towards certain classes of

disturbance and model mismatches The purpose of this monograph is to give a different dimension to sliding 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 designed to meet the closed loop specifications Many systems demand high performance with robustness To address this issue of achieving high performance with robustness we propose nonlinear surfaces for different 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 final high value

Sliding Mode Control Hebertt Sira-Ramírez, 2015-05-25 This monograph presents a novel method of sliding mode control for switch regulated nonlinear systems The Delta Sigma modulation approach allows one to implement a continuous control scheme using one or multiple independent switches thus effectively merging the available linear and nonlinear controller design techniques with sliding mode control Sliding Mode Control The Delta Sigma Modulation Approach combines rigorous mathematical derivation of the unique features of Sliding Mode Control and Delta Sigma modulation with numerous illustrative examples from diverse areas of engineering In addition engineering case studies demonstrate the applicability of the technique and the ease with which one can implement the exposed results This book will appeal to researchers in control engineering and can be used as graduate level textbook for a first course on sliding mode control

**Advanced Sliding Mode Control for Mechanical Systems** Jinkun Liu, Xinhua Wang, 2012-09-07 Advanced Sliding Mode Control for Mechanical Systems Design Analysis and MATLAB Simulation takes readers through the basic concepts covering the most recent research in sliding mode control The book is written from the perspective of practical engineering and examines numerous classical sliding mode controllers including continuous time sliding mode control discrete time sliding mode control fuzzy sliding mode control neural sliding mode control backstepping sliding mode control dynamic sliding mode control sliding mode control based on observer terminal sliding mode control sliding mode control for robot manipulators and sliding mode control for aircraft This book is intended for engineers and researchers working in the field of control Dr Jinkun Liu works at Beijing University of Aeronautics and Astronautics and Dr Xinhua Wang works at the National University of Singapore

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

**Event-Triggered Sliding Mode Control** Bijan Bandyopadhyay, Abhisek K. Behera, 2018-02-20 This edited monograph provides a comprehensive and in depth analysis of sliding mode control focusing on event triggered implementation The technique allows to prefix the steady state bounds of the system and this is independent of any boundary disturbances The idea of event triggered SMC is developed for both single input single output and multi input multi output linear systems Moreover the reader learns how to apply this method to nonlinear systems The book primarily addresses research experts in the field of sliding mode control but the book may also be beneficial for graduate students

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## **Table of Contents Sliding Mode Control**

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

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