



Sliding Mode Control

**Martin Steinberger, Martin
Horn, Leonid Fridman**

Sliding Mode Control:

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 *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 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 equat *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

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 *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 over some 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

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

Discrete-time Sliding Mode Control B. Bandyopadhyay,S. Janardhanan,2005-10-17 Sliding mode control is a simple and yet robust control technique where the system states are made to confine to a selected subset With the increasing use of computers and discrete time samplers in controller implementation in the recent past discrete time systems and computer based control have become important topics This monograph presents an output feedback sliding mode control philosophy which can be applied to almost all controllable and observable systems while at the same time being simple enough as not to tax the computer too much It is shown that the solution can be found in the synergy of the multirate output sampling concept and the concept of discrete time sliding mode control

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 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

Emerging Trends in Sliding Mode Control Axaykumar Mehta,Bijnan 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 **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

Emerging Trends in Sliding Mode Control Axaykumar Mehta,Bijnan Bandyopadhyay,2021 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 **Sliding Mode Control for Synchronous Electric Drives** Sergey E. Ryvkin,Eduardo Palomar Lever,2011-11-21 This volume presents the theory of control systems with sliding mode applied to electrical motors and power converters It demonstrates the methodology of control design and the original algorithms of control and observation Practically all semiconductor devices are used in power converters that feed electrical motors as power switches A switch

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

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 Sliding Mode Control B Bandyopadhyay, S

Janardhanan, Sarah K. Spurgeon, 2013-03-15 The sliding mode control paradigm has become a mature technique for the design of robust controllers for a wide class of systems including nonlinear, uncertain and time delayed systems. This book is a collection of plenary and invited talks delivered at the 12th IEEE International Workshop on Variable Structure System held at the Indian Institute of Technology Mumbai, India in January 2012. After the workshop these researchers were invited to develop book chapters for this edited collection in order to reflect the latest results and open research questions in the area. The contributed chapters have been organized by the editors to reflect the various themes of sliding mode control which are the current areas of theoretical research and applications focus namely articulation of the fundamental underpinning theory of the sliding mode design paradigm, sliding modes for decentralized system representations, control of time delay systems, the higher order sliding mode concept results applicable to nonlinear and underactuated systems, sliding mode observers, discrete sliding mode control together with cutting edge research contributions in the application of the sliding mode concept to real world problems. This book provides the reader with a clear and complete picture of the current trends in Variable Structure Systems and Sliding Mode Control Theory

Event-Triggered Sliding Mode Control Bijnan

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 [Advanced and Optimization Based Sliding Mode Control: Theory and Applications](#) Antonella Ferrara,Gian Paolo Incremona,Michele Cucuzella,2019-07-01 A compendium of the authors recently published results this book discusses sliding mode control of uncertain nonlinear systems with a particular emphasis on advanced and optimization based algorithms The authors survey classical sliding mode control theory and introduce four new methods of advanced sliding mode control They analyze classical theory and advanced algorithms with numerical results complementing the theoretical treatment Case studies examine applications of the algorithms to complex robotics and power grid problems Advanced and Optimization Based Sliding Mode Control Theory and Applications is the first book to systematize the theory of optimization based higher order sliding mode control and illustrate advanced algorithms and their applications to real problems It presents systematic treatment of event triggered and model based event triggered sliding mode control schemes including schemes in combination with model predictive control and presents adaptive algorithms as well as algorithms capable of dealing with state and input constraints Additionally the book includes simulations and experimental results obtained by applying the presented control strategies to real complex systems This book is suitable for students and researchers interested in control theory It will also be attractive to practitioners interested in implementing the illustrated strategies It is accessible to anyone with a basic knowledge of control engineering process physics and applied mathematics

Fractional-Order Sliding Mode Control: Methodologies and Applications Guanghui Sun,Chengwei Wu,Xiaolei Li,Zhiqiang Ma,Shidong Xu,Xiangyu Shao,2024-06-21 This book delves deep into fractional order control and fractional order sliding mode techniques addressing key challenges in the control design of linear motor systems and control for the deployment of space tethered systems Innovative strategies such as adaptive fractional order sliding mode control and fractional order fuzzy sliding mode control schemes are devised to enhance system performance Divided into three parts it covers a brief view of fractional order control strength in modeling and control fractional order sliding mode control of linear motor systems and fractional order sliding mode control for the deployment of space tethered systems Each chapter offers valuable insights and solutions Simulations and experiments validate the efficacy of these approaches making this book essential for researchers engineers and practitioners in control systems and aerospace engineering

Sliding Mode Control: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Sliding Mode Control : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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