

Sliding Mode Control in Electro-Mechanical Systems

Second Edition



Vedim Utkin
Jürgen Guldner
Jingpan Shi



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Sliding Mode Control In Electromechanical Systems

**Axaykumar Mehta, Bijnan
Bandyopadhyay**



Sliding Mode Control In Electromechanical Systems:

Sliding Mode Control in Electro-mechanical Systems Vadim Utkin, Juergen Guldner, Ma Shijun, 1999-04-22 Sliding Mode Control SMC is gaining increasing importance as a universal design tool for the robust control of linear and nonlinear systems The strengths of sliding mode controllers result from the ease and flexibility of the methodology for their design and implementation They provide inherent order reduction direct incorporation of robustness against system uncertainties and disturbances and an implicit stability proof They also allow for the design of high performance control systems at low costs SMC is particularly useful for electro mechanical systems because of its discontinuous structure In fact since the hardware of many electro mechanical systems such as electric motors prescribes discontinuous inputs SMC has become the natural choice for direct implementation The book is intended primarily for engineers and establishes an interdisciplinary bridge between control science electrical and mechanical engineering

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 Brandstädt, 2009

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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 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

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

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 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

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, 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 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 Applications of Sliding Mode Control Nabil Derbel, Jawhar Ghommam, Quanmin Zhu, 2016-10-14 This book presents essential studies and applications in the context of sliding mode control highlighting the latest findings from interdisciplinary theoretical studies ranging from computational algorithm development to representative applications Readers will learn how to easily tailor the techniques to accommodate their ad hoc applications To make the content as accessible as possible the book employs a clear route in each paper moving from background to motivation to quantitative development equations and lastly to case studies illustrations tutorials simulations experiences curves tables etc Though primarily intended for graduate students professors and researchers from related fields the book will also benefit engineers and scientists from industry **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 **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 *Bulletin of Electrical Engineering and Informatics* Tole Sutikno,Auzani Jidin,Mochammad Facta,2014-03-01 Table of Contents Using HBMO Algorithm to Optimal Sizing Sitting of Distributed Generation in Power System Noradin Ghadimi 1 8 Management of Urban Parking Lot Energy Efficiency with the Application of Wind Turbine and LED lights Bekir Z Yuksek Ulan Dakeev 9 14 Indirect Vector Control of Three Phase Induction Motor using PSIM Nagulapati Kiran 15 24 Improved Dynamic Response of Buck Converter using Fuzzy Controller Nagulapati Kiran Ch Varaha Narasimha Raja 25 36 Sliding Mode Control of Buck Converter Nagulapati Kiran 37 44 Two Parameter Controller for a Single Machine Infinite Bus System Ch Varaha Narasimha Raja 45 50 A Hybrid Hardware Verification Technique in FPGA Design Mojtaba Dehghani Firouzabadi Hossein Heidari 51 54 A Genuine Random Sequential Multi signature Scheme Yonglong Tang 55 68

Recent Advances in Robust Control Andreas Müller,2011-11-21 Robust control has been a topic of active research in the last three decades culminating in H_2 , H_∞ and μ design methods followed by research on parametric robustness initially motivated by Kharitonov's theorem the extension to non linear time delay systems and other more recent methods The two volumes of Recent Advances in Robust Control give a selective overview of recent theoretical developments and present selected application examples The volumes comprise 39 contributions covering various theoretical aspects as well as different application areas The first volume covers selected problems in the theory of robust control and its application to robotic and electromechanical systems The second volume is dedicated to special topics in robust control and problem specific solutions Recent Advances in Robust Control will be a valuable reference for those interested in the recent theoretical advances and for researchers working in the broad field of robotics and mechatronics

Indoor Navigation Strategies for Aerial Autonomous Systems Pedro Castillo-Garcia,Laura Elena Munoz Hernandez,Pedro Garcia Gil,2016-11-10 Indoor Navigation Strategies for Aerial Autonomous Systems presents the necessary and sufficient theoretical basis for those interested in working in unmanned aerial vehicles providing three different approaches to mathematically represent the dynamics of an aerial vehicle The book contains detailed information on fusion inertial measurements for orientation stabilization and its validation in flight tests also proposing substantial theoretical and practical validation for improving the dropped or noised signals In addition the book contains different strategies to control and navigate aerial systems The comprehensive information will be of interest to both researchers and practitioners working in automatic control mechatronics robotics and UAVs helping them improve research and motivating them to build a test bed for future projects Provides substantial information on nonlinear control approaches and their validation in flight tests Details in observer delay schemes that can be applied in real time Teaches how an IMU is built and how they can improve the performance of their system when applying observers or predictors Improves prototypes with tactics for proposed nonlinear schemes

Control Design Techniques in Power Electronics Devices Hebertt

J. Sira-Ramirez, Ramón Silva-Ortigoza, 2006-09-07 This book deals specifically with control theories relevant to the design of control units for switched power electronics devices for the most part represented by DC DC converters and supplies by rectifiers of different kinds and by inverters with varying topologies The theoretical methods for designing controllers in linear and nonlinear systems are accompanied by multiple case studies and examples showing their application in the emerging field of power electronics

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