



Sliding Mode Control In Engineering

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



Sliding Mode Control In Engineering:

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

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 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 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 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 Applications of Sliding Mode Control in Science and Engineering Sundarapandian Vaidyanathan,Chang-Hua Lien,2017-04-06 Gathering 20 chapters contributed by respected experts this book reports on the latest advances in and applications of sliding mode control in science and engineering The respective chapters address applications of sliding mode control in the broad areas of chaos theory robotics electrical engineering physics chemical engineering memristors mechanical engineering environmental engineering finance and biology Special emphasis has been given to papers that offer practical solutions and which examine design and modeling involving new types of sliding mode control such as higher order sliding mode control terminal sliding mode control super

twisting sliding mode control and integral sliding mode control This book serves as a unique reference guide to sliding mode control and its recent applications for graduate students and researchers with a basic knowledge of electrical and control systems engineering *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 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 over non Archimedean fields in relation to Markov processes Road Map for Sliding Mode Control Design Vadim Utkin,Alex Poznyak,Yury V. Orlov,Andrey Polyakov,2020-04-14 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 discusses 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 Hierarchical Sliding Mode Control for Under-actuated Cranes Dianwei Qian,Jianqiang Yi,2015-10-15 This book reports on the latest developments in sliding mode overhead crane control presenting novel research ideas and findings on sliding mode control SMC hierarchical SMC and compensator design based hierarchical sliding mode The results which were previously scattered across various journals and conference proceedings are now presented in a systematic and unified form The book will be of interest to researchers engineers and graduate students in control engineering and mechanical engineering who want to learn the methods and applications of SMC **Recent Developments in Control, Automation and Power Engineering**

Hemender Pal Singh, Ishak B. Aris, Anwar Shahzad Siddiqui, 2025-05-23 This book contains original peer reviewed research papers from the 5th international conference RDCAPE 2023 This book presents the latest developments in the field of electrical engineering and related areas distinctively and engagingly The book discusses issues related to new challenges of renewable energy new control paradigms for efficient automation and decentralized power systems new economics of open auction based electricity generation transmission and distribution markets etc Apart from these many other topics of interest for readers are also covered The papers presented here share the latest findings on various issues as mentioned above It makes the book a useful resource for researchers scientists industry people and students alike Applications of Sliding Mode Control Nabil Derbel, Jawhar Ghommam, Quanmin Zhu, 2017 Sliding Modes in Control and Optimization Vadim I. Utkin, 2013-03-12 The book is devoted to systems with discontinuous control The study of discontinuous dynamic systems is a multifacet problem which embraces mathematical control theoretic and application aspects Times and again this problem has been approached by mathematicians physicists and engineers each profession treating it from its own positions Interestingly the results obtained by specialists in different disciplines have almost always had a significant effect upon the development of the control theory It suffices to mention works on the theory of oscillations of discontinuous nonlinear systems mathematical studies in ordinary differential equations with discontinuous righthand parts or variational problems in nonclassic statements The unremitting interest to discontinuous control systems enhanced by their effective application to solution of problems most diverse in their physical nature and functional purpose is in the author's opinion a cogent argument in favour of the importance of this area of studies It seems a useful effort to consider from a control theoretic viewpoint the mathematical and application aspects of the theory of discontinuous dynamic systems and determine their place within the scope of the present day control theory The first attempt was made by the author in 1975 1976 in his course on The Theory of Discontinuous Dynamic Systems and The Theory of Variable Structure Systems read to post graduates at the University of Illinois USA and then presented in 1978 1979 at the seminars held in the Laboratory of Systems with Discontinuous Control at the Institute of Control Sciences in Moscow *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 Recent Advances in Engineering Mathematics and Physics Mohamed Hesham Farouk, Maha Amin Hassanein, 2020-08-03 This book gathers the proceedings of the 4th conference on Recent Advances in Engineering Math computational intelligence photonics physical measurements and big data analytics physics and nano technologies and optimization and mathematical analysis **Sliding**

Mode Control (SMC) David T. Ellis, 2015 Sliding mode control was first introduced in the 1950s It is a nonlinear control technique with many unique properties In this book different aspects of SMC are explored Chapters include new developments in research on a sliding mode governor for hydropower plants integral sliding mode control I SMC for a variable speed wind turbine system and a I SMC method for load frequency control LFC of nonlinear power systems with wind turbines the control of a stand alone photovoltaic PV system leader follower based formation control of a group of mobile robots the application of Takagi Sugeno T S fuzzy model in coordinated control of multiple robots system an induction motor speed control using the nonsingular terminal sliding mode control method adaptive nonsingular terminal sliding mode NTSM tracking control scheme based on backstepping design presented for Micro Electro Mechanical Systems MEMS vibratory gyroscopes and a hybrid actuator and its control using a cascade sliding mode technique Sliding Mode Control of Semi-Markovian Jump Systems Baoping Jiang, Hamid Reza Karimi, 2021-08-23 This book presents analysis and design for a class of stochastic systems with semi Markovian jump parameters It explores systematic analysis of semi Markovian jump systems via sliding mode control strategy which makes up the shortages in the analysis and design of stochastic systems This text provides a novel estimation method to deal with the stochastic stability of semi Markovian jump systems along with design of novel integral sliding surface Finally Takagi Sugeno fuzzy model approach is brought to deal with system nonlinearities and fuzzy sliding mode control laws are provided to ensure the stabilization purpose Features Presents systematic work on sliding mode control SMC of semi Markovian jump systems Explores SMC methods such as fuzzy SMC adaptive SMC with the presence of generally uncertain transition rates Provides novel method in dealing with stochastic systems with unknown switching information Proposes more general theories for semi Markovian jump systems with generally uncertain transition rates Discusses practical examples to verify the effectiveness of SMC theory in semi Markovian jump systems This book aims at graduate and postgraduate students and for researchers in all engineering disciplines including mechanical engineering electrical engineering and applied mathematics control engineering signal processing process control control theory and robotics

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 Recent Trends in Sliding Mode Control Leonid Fridman, Jean Pierre Barbot, Franck Plestan, 2016 **Intelligent Computational Optimization in Engineering** Mario Köppen, Gerald Schaefer, Ajith Abraham, 2011-07-15 We often come across computational optimization virtually in all branches of engineering and industry Many engineering problems involve heuristic search and optimization and once discretized may become combinatorial in nature which gives rise to certain difficulties in terms of solution procedure Some of these problems have enormous search spaces are NP hard and hence require heuristic solution techniques Another difficulty is the lack of ability of classical solution techniques to determine appropriate optima of non convex problems Under these conditions recent advances in computational optimization techniques have been shown to be advantageous and successful compared to classical approaches This Volume presents some of the latest developments with a focus on the design of algorithms for computational optimization and their applications in practice Through the chapters of this book researchers and practitioners share their experience and newest methodologies with regard to intelligent optimization and provide various case studies of the application of intelligent optimization techniques in real world applications This book can serve as an excellent reference for researchers and graduate students in computer science various engineering disciplines and the industry

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Sliding Mode Control In Engineering Introduction

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