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Sliding Mode Control and Observation

Sliding Mode Control And Observation Control Engineering By Yuri Shtessel 1 Jun 2013 Hardcover

**B Bandyopadhyay, S
Janardhanan, Sarah K. Spurgeon**



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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 equat

Sliding Modes in Control and Optimization Vadim Ivanovich Utkin, 1992 The purpose of this book is to describe a new approach for the design of high efficiency control of multi dimensional systems operating under uncertainty conditions It covers mathematical control and technological aspects of discontinuous control systems The generation of sliding modes is the basic design idea resulting in decomposition of system motion and invariancy to uncertainties in plant behaviour Implementation of discontinuous control is natural for widely used electronic power converters with key operation

Advances and Applications in Sliding Mode Control systems Ahmad Taher Azar, Quanmin Zhu, 2016-09-10 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 C Edwards, S 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 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 From this basis more advanced theoretical results are developed Two industrial case studies which present the results of sliding mode controller implementations are used to illustrate the successful practical application theory

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

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

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

Recent Trends in Sliding Mode Control Leonid Fridman, Jean-Pierre Barbot, Franck Plestan, 2016-04-28 This book describes recent advances in the theory properties methods and applications of SMC including a discussion about the advantages and disadvantages of different SMC algorithms

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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