



The Chattering Effect

Chattering Attenuation Of Sliding Mode Controller Using

N Colangelo



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Discontinuous Control Systems Igor Boiko, 2008-11-18 This book provides new insight on the problem of closed loop performance and oscillations in discontinuous control systems covering the class of systems that do not necessarily have low pass filtering properties The author provides a practical yet rigorous and exact approach to analysis and design of discontinuous control systems via application of a novel frequency domain tool the locus of a perturbed relay system Presented are a number of practical examples applying the theory to analysis and design of discontinuous control systems from various branches of engineering including electro mechanical systems process control and electronics Discontinuous Control Systems is intended for readers who have knowledge of linear control theory and will be of interest to graduate students researchers and practicing engineers involved in systems analysis and design Artificial Intelligence: Theories and Applications Mohammed Salem, Juan Julián Merelo, Patrick Siarry, Rochdi Bachir Bouiadjra, Mohamed Debakla, Fatima Debbat, 2023-03-17 This volume constitutes selected papers presented at the First International Conference on Artificial Intelligence Theories and Applications ICAITA 2022 held in Mascara Algeria in November 2022 The 23 papers were thoroughly reviewed and selected from the 66 qualified submissions They are organized in topical sections on artificial vision and artificial intelligence in big data and natural language processing Intelligent Manufacturing and Mechatronics Zamberi Jamaludin, Mohd Najib Ali Mokhtar, 2019-07-03 This book presents the proceedings of SympoSIMM 2019 the 2nd edition of the Symposium on Intelligent Manufacturing and Mechatronics Focusing on Strengthening Innovations Towards Industry 4.0 the book presents studies on the details of Industry 4.0's current trends Divided into five parts covering various areas of manufacturing engineering and mechatronics stream namely artificial intelligence instrumentation and controls intelligent manufacturing modelling and simulation and robotics the book is a valuable resource for readers wishing to embrace the new era of Industry 4.0 *Proceedings of the 2024 2nd International Conference on Image, Algorithms and Artificial Intelligence (ICIAAI 2024)* Yulin Wang, 2024-10-12 This is an Open Access book 2024 2nd International Conference on Image Algorithms and Artificial Intelligence ICIAAI2024 will be held in Singapore Online Participation is acceptable during August 9-11 2024 ICIAAI aims to provide a good forum for scientists researchers engineers and industrial practitioners throughout the world to present and discuss the latest technology advancement as well as future directions and trends in image algorithms and artificial intelligence The scope of ICIAAI 2024 covers research areas such as imaging algorithms and artificial intelligence Related fields of research include computer software programming languages software engineering computer science applications artificial intelligence Intelligent data analysis deep learning high performance computing signal processing information systems computer graphics computer aided design Computer vision etc The objectives of the conference are The conference aims to provide a platform for experts scholars engineers and technicians engaged in the research of image algorithm and artificial intelligence to share scientific research results and cutting edge

technologies It will be a perfect gathering to strengthen academic research and discussion promote the development and progress of relevant research and application and promote the development of disciplines and promote talent training

Fast Satellite Attitude Maneuver and Control Dong Ye, You Li, Yan Xiao, 2022-08-02 Fast Satellite Attitude Maneuver and Control introduces the concept of agile satellites and corresponding fast maneuver attitude control systems systematically and comprehensively presenting recent research results of fast maneuver attitude control for agile satellites by using advanced nonlinear control techniques This reference book focuses on modeling and attitude control considering different actuator combinations actuator installation deviation actuator fault and flexible appendage coupling effect for agile satellites The book provides a unified platform for understanding and applicability of agile satellites fast maneuverer and stabilization control for different purposes It will be an excellent resource for researchers working on spacecraft design nonlinear control systems vehicle systems and complex control systems Unifies existing and emerging concepts concerning nonlinear control theory fault tolerant and attitude control for agile satellites Provides a series of the latest results including but not limited to fast maneuverer and stabilization control hybrid actuator control nonlinear attitude control fault tolerant control and active vibration suppression towards agile satellites Comprehensively captures recent advances of theory technological aspects and applications of fast maneuverer and stabilization control in agile satellites Addresses research problems in each chapter along with numerical and simulation results that reflect engineering practice and demonstrate the focus of developed analysis and synthesis approaches Contains comprehensive up to date references which play an indicative role for further study

Intelligent Manufacturing & Mechatronics Mohd Hasnun Arif Hassan, 2018-04-27 This book presents the proceedings of SympoSIMM 2018 the 1st edition of the Symposium on Intelligent Manufacturing and Mechatronics With the theme of Strengthening Innovations Towards Industry 4.0 the book comprises the studies towards the particularity of Industry 4.0's current trends It is divided into five parts covering various scopes of manufacturing engineering and mechatronics stream namely Intelligent Manufacturing Robotics Artificial Intelligence Instrumentation and Modelling and Simulation It is hoped that this book will benefit the readers in embracing the new era of Industrial Revolution 4.0

Hybrid Intelligent Systems Oscar Castillo, Patricia Melin, Witold Pedrycz, 2007-07-23 This volume offers a general view of recent conceptual developments of Soft Computing SC It presents successful new applications of SC to real world problems leading to better performance than traditional methods The edited volume covers a wide spectrum of applications including areas such as robotic dynamic systems non linear plants manufacturing systems and time series prediction

Sliding Mode Observers for Automotive Alternator De-Shiou Chen, 1998 Abstract Estimator development for synchronous rectification of the automotive alternator is a desirable approach for estimating alternator's back electromotive forces EMFs without a direct mechanical sensor of the rotor position Recent theoretical studies show that estimation of the back EMF may be observed based on system's phase current model by sensing electrical variables AC phase currents and DC bus voltage of the

synchronous rectifier Observer design of the back EMF estimation has been developed for constant engine speed In this work we are interested in nonlinear observer design of the back EMF estimation for the real case of variable engine speed Initial back EMF estimate can be obtained from a first order sliding mode observer SMO based on the phase current model A fourth order nonlinear asymptotic observer NAO complemented by the dynamics of the back EMF with time varying frequency and amplitude is then incorporated into the observer design for chattering reduction Since the cost of required phase current sensors may be prohibitive the most applicable approach in real implementation by measuring DC current of the synchronous rectifier is carried out in the dissertation It is shown that the DC link current consists of sequential windows with partial information of the phase currents hence the cascaded NAO is responsible not only for the purpose of chattering reduction but also for necessarily accomplishing the process of estimation Stability analyses of the proposed estimators are considered for most linear and time varying cases The stability of the NAO without speed information is substantiated by both numerical and experimental results Prospective estimation algorithms for the case of battery current measurements are investigated Theoretical study indicates that the convergence of the proposed LAO may be provided by high gain inputs Since the order of the LAO NAO for the battery current case is one order higher than that of the link current measurements it is hardly to find moderate values of the input gains for the real time sampled data systems Technical difficulties in implementation of such high order discrete time nonlinear estimators have been discussed Directions of further investigations have been provided

ASME Technical Papers ,1999 □□□□□□ ,1998 1996 IEEE International Workshop on Variable Structure Systems, VSS '96 ,1996 VSS 96 was a workshop designed for control engineers working in the field of sliding mode control VSS and nonlinear systems Providing coverage of that workshop this text examines robust sliding mode VSS in power electronics time delay systems VSS theory and VSS applications *Journal of Dynamic Systems, Measurement, and Control* ,2003 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **Proceedings of the National Science Council, Republic of China** ,1996 *Control Theory and Advanced Technology* ,1993 **FUSION** ... ,2003 Proceedings ,1996 **Colloquium on Automatic Control** Claudio Bonivento,Giovani Marro,Roberto Zanasì,1996-06 Comprising six invited lectures by recognised experts in the field of control the Colloquium on Automatic Control presents a number of well balanced theoretical and engineering oriented elements which will be accessible to many readers ranging from non specialists to experts and professionals in the field **Mathematical Reviews** ,2001 *Proceedings of the IEEE International Symposium on Industrial Electronics* ,1993 **Proceedings of the 1996 IEEE IECON** ,1996

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