

Advances in Industrial Control

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Paul Puleston
Miguel Mayosky

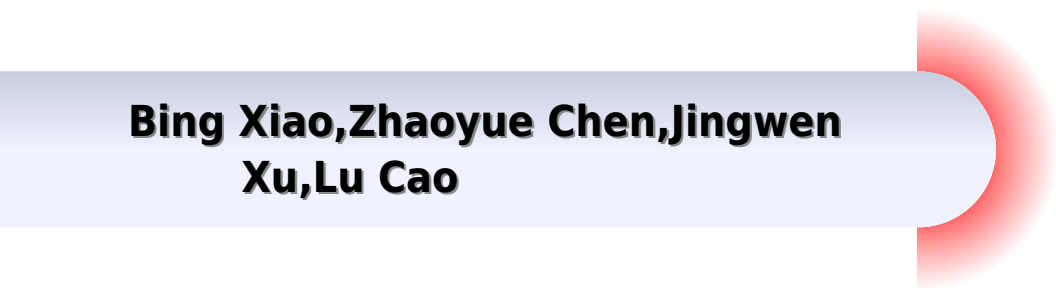
Sliding-Mode Control of PEM Fuel Cells

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Sliding Mode Control Of Pem Fuel Cells Advances In Industrial Control

**Bing Xiao,Zhaoyue Chen,Jingwen
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Sliding Mode Control Of Pem Fuel Cells Advances In Industrial Control:

Sliding-Mode Control of PEM Fuel Cells Cristian Kunusch, Paul Puleston, Miguel Mayosky, 2012-01-14 Sliding mode Control of PEM Fuel Cells demonstrates the application of higher order sliding mode control to PEMFC dynamics showing the advantages of sliding modes The book introduces the theory of fuel cells and sliding mode control It contextualises PEMFCs both in terms of their development and within the hydrogen economy and today's energy production situation as a whole It then discusses fuel cell operation principles the mathematical background of high order sliding mode control and to a feasibility study for the use of sliding modes in the control of an automotive fuel stack Part II presents experimental results of sliding mode control application to laboratory fuel cells and deals with subsystem based modelling detailed design and observability and controllability Simulation results are contrasted with empirical data and performance robustness and implementation issues are treated in depth Possibilities for future research are also laid out [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 **Applications of Computational Intelligence** Alvaro David Orjuela-Cañón, Jesus Lopez, Julian David Arias-Londoño, Juan Carlos Figueroa-García, 2023-03-30 This book constitutes the refereed proceedings of the 5th IEEE Colombian Conference on Applications of Computational Intelligence ColCACI 2022 held in Cali Colombia during July 27 29 2022 The 7 extended papers included in this book were carefully reviewed and selected from 38 submissions They were organized in topical sections as follows Design of a segmentation and classification system for seed detection based on pixel intensity thresholds and convolutional neural networks **International Conference on Advanced Intelligent Systems for Sustainable Development** Janusz Kacprzyk, Mostafa Ezziyyani, Valentina Emilia Balas, 2023-06-11 This book describes the potential contributions of emerging technologies in different fields as well as the opportunities and challenges related to the integration of these technologies in the socio economic sector In this book many latest technologies are addressed particularly in the fields of computer science and engineering The expected scientific papers covered state of the art technologies theoretical concepts standards product implementation ongoing research projects and innovative applications of Sustainable Development This new technology highlights the guiding principle of innovation for harnessing frontier technologies and taking full profit from the current technological revolution to reduce gaps that hold back truly inclusive and

sustainable development The fundamental and specific topics are Big Data Analytics Wireless sensors IoT Geospatial technology Engineering and Mechanization Modeling Tools Risk analytics and preventive systems Advances in Nonlinear Observer Design for State and Parameter Estimation in Energy Systems Andreu Cecilia,2023-08-28 This book reports on a set of advances relating to nonlinear observer design with a special emphasis on high gain observers First it covers the design of filters and their addition to the observer for reducing noise a topic that has been so far neglected in the literature Further it describes the adaptive re design of nonlinear observers to reduce the effect of parametric uncertainty It discusses several limitations of classical methods presenting a set of successful solutions which are mathematically formalised through Lyapunov stability analysis and in turn validated via numerical simulations In the second part of the book two applications of the adaptive nonlinear observers are described such in the estimation of the liquid water in a hydrogen fuel cell and in the solution of a common cybersecurity problem i e false data injection attacks in DC microgrids All in all this book offers a comprehensive report on the state of the art in nonlinear observer design for energy systems including mathematical demonstrations and numerical and experimental validations *Advanced Attitude Control of Satellite* Bing Xiao,Zhaoyue Chen,Jingwen Xu,Lu Cao,2024-07-02 This book focuses on the high accuracy attitude control system design and approaches for satellite with modeling error including system uncertainties actuator faults and disturbances It presents a systematically and almost self contained description of the many facets of envisaging designing implementing or experimentally exploring modeling error compensation based attitude control of satellites The advanced treatment of practical issues in satellite attitude compensation control is one of the major features of the book which is particularly suited for readers who are interested to learn the latest solutions in attitude control system design of satellites The book intends to provide a unified platform for understanding and applicability of the modeling error compensation based attitude control for different purposes in aerospace engineering and some related fields It can benefit researchers engineers and graduate students in the fields of attitude control of satellites and other unmanned systems aerospace engineering etc Sliding Mode Control Methodology in the Applications of Industrial Power Systems Jianxing Liu,Yabin Gao,Yunfei Yin,Jiahui Wang,Wensheng Luo,Guanghui Sun,2019-10-23 This book presents recent advanced techniques in sliding mode control and observer design for industrial power systems focusing on their applications in polymer electrolyte membrane fuel cells and power converters Readers will find not only valuable new fault detection and isolation techniques based on sliding mode control and observers but also a number of robust control and estimation methodologies combined with fuzzy neural networks and extended state observer methods The book also provides necessary experimental and simulation examples for proton exchange membrane fuel cell systems and power converter systems Given its scope it offers a valuable resource for undergraduate and graduate students academics scientists and engineers who are working in the field *Optimization of the Fuel Cell Renewable Hybrid Power Systems* Nicu Bizon,2020-02-11 This book offers a comprehensive review of

renewable energy sources and optimization strategies in hybrid power systems HPSs It analyses the main issues and challenges in the renewable REW HPS field particularly those using fuel cell FC systems as their main source of energy It then offers innovative solutions to these issues comparing them to solutions currently found in the literature The book discusses optimization algorithms and energy management strategies The focus is chiefly on FC net power maximization and fuel economy strategies based on global optimization The last two chapters discuss energy harvesting from photovoltaic systems and how to mitigate energy variability in REW FC HPS The main content is supplemented by numerous examples and simulations Academics students and practitioners in relevant industrial branches interested in REW HPS finds it of considerable interest as a reference book or for building their own HPSs based on the examples provided **Recent**

Advances in Electrical and Information Technologies for Sustainable Development Soumia El Hani, Mohamad Essaaidi, 2019-02-08 The book includes the best extended papers which were selected from the 3rd International Conference of Electrical and Information Technologies ICEIT 2017 Morocco The book spans two inter related research domains which shaped modern societies solved many of their development problems and contributed to their unprecedented economic growth and social welfare Selected papers are based on original and high quality research They were peer reviewed by experts in the field They are grouped into five parts Part I deals with Power System and Electronics topics that include Power Electronics Energy Conversion Actuators Micro Nanotechnology etc Part II relates to Control Systems and their applications Part III concerns the topic of Information Technology that basically includes Smart Grid Information Security Cloud Computing Distributed Big Data etc Part IV discusses Telecommunications and Vehicular Technologies topics that include Green Networking and Communications Wireless Ad hoc and Sensor Networks etc Part V covers Green Applications and Interdisciplinary topics that include intelligent and Green Technologies for Transportation Systems Smart Cities etc This book offers a good opportunity for young researchers novice scholars and whole academic sphere to explore new trends in Electrical and information Technologies **Advances in Renewable Hydrogen and Other Sustainable Energy Carriers**

Abdallah Khellaf, 2020-08-19 This book examines a broad range of advances in hydrogen energy and alternative fuel developments and their role in the energy transition The respective contributions were presented at the International Symposium on Sustainable Hydrogen held in Algiers Algeria on November 27 28 2019 The transition from non renewable polluting energy to sustainable green energy requires not only new energy sources but also new storage techniques and smart energy management This situation has sparked renewed interest in hydrogen and alternative fuels as they could help meet these needs Indeed hydrogen can not only be used as a clean energy vector or as an alternative fuel but also as a storage medium or as an intermediary that enables improved energy management This text offers a valuable reference guide for those working in the professional energy sector as well as for students and instructors in academia who want to learn about the state of the art and future directions in the fields of hydrogen energy alternative fuels and sustainable energy

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