Engineering Applications of MATLAB® 5.3 and SIMULINK® 3

Engineering Applications Of Matlab 53 And Simulink 3

Wolfgang Guggemos

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Power Quality Issues Suresh Mikkili,2018-10-08 Power Quality Issues Current Harmonics provides solutions for the mitigation of power quality problems related to harmonics Focusing on active power filters APFs due to their excellent harmonic and reactive power compensation in two wire single phase three wire three phase without neutral and four wire three phase with neutral AC power networks with nonlinear loads the text Introduces the APF technology describing various APF configurations and offering guidelines for the selection of APFs for specific application considerations Compares shunt active filter SHAF control strategies for extracting three phase reference currents evaluating their performance under a number of source voltage conditions using a proportional integral PI controller Presents PI controller based SHAF instantaneous active and reactive power p q and instantaneous active and reactive current Id Iq control strategies supplying detailed MATLAB Simulink simulation results Proposes SHAF control strategies using type 1 and type 2 fuzzy logic controllers FLCs with different fuzzy membership functions MFs analyzing their harmonic mitigation and DC link voltage regulation Verifies the proposed type 2 FLC based SHAF control strategies with trapezoidal triangular and Gaussian fuzzy MFs using RT LAB a real time digital simulation software from OPAL RT Technologies Power Quality Issues Current Harmonics is a useful resource for those tackling electrical power quality challenges The compensation techniques described in this book alleviate harmonic issues that can distort voltage waveforms fry a building s wiring trigger nuisance tripping overheat transformer units and cause random end user equipment failure *Engineering Applications of MATLAB 5.3 and SIMULINK 3* Mohand Mokhtari,Michel Marie,2000 *Dynamic Systems* Bingen Yang,Inna Abramova,2022-11-24 A comprehensive and efficient approach to the modelling simulation and analysis of dynamic systems for undergraduate engineering students **NASA Tech Briefs** ,1999 *Advances in Systems, Control and Automations* Akash Kumar Bhoi,Pradeep Kumar Mallick,Valentina Emilia Balas,Bhabani Shankar Prasad Mishra,2021-03-19 This book comprises select proceedings of the international conference ETAEERE 2020 This volume covers latest research in advanced approaches in automation control based devices and adaptive learning mechanisms The contents discuss the complex operations and behaviors of different systems or machines in different environments Some of the areas covered include control of linear and nonlinear systems intelligent systems stochastic control knowledge based systems applications fault diagnosis and tolerant control and real time control applications The contents of this volume can be useful for researchers as well as professionals working in control and automation Model Management and Analytics for Large Scale Systems Bedir Tekinerdogan,Önder Babur,Loek Cleophas,Mark van den Brand,Mehmet Aksit,2019-09-14 Model Management and Analytics for Large Scale Systems covers the use of models and related artefacts such as metamodels and model transformations as central elements for tackling the complexity of building systems and managing data With their increased use across diverse settings the complexity size multiplicity and variety of those artefacts has increased Originally developed for software engineering these

approaches can now be used to simplify the analytics of large scale models and automate complex data analysis processes Those in the field of data science will gain novel insights on the topic of model analytics that go beyond both model based development and data analytics This book is aimed at both researchers and practitioners who are interested in model based development and the analytics of large scale models ranging from big data management and analytics to enterprise domains The book could also be used in graduate courses on model development data analytics and data management Identifies key problems and offers solution approaches and tools that have been developed or are necessary for model management and analytics Explores basic theory and background current research topics related challenges and the research directions for model management and analytics Provides a complete overview of model management and analytics frameworks the different types of analytics descriptive diagnostics predictive and prescriptive the required modelling and method steps and important future directions *MATLAB 5.0 for Engineers* Joe King,1998 Consisting of modules that cover engineering skills and concepts programming languages and software tools this work is a flexible solution for keeping up with the curriculum of first year engineering **American Book Publishing Record** ,2000 *Application of the Stochastic Optimization Method in Optimizing Traffic Signal Control Settings* Byungkyu Park,2008 Traffic congestion has greatly affected not only the nation s economy and environment but also every citizen s quality of life A recent study shows that every American traveler spent an extra 38 hours and 26 gallons of fuel per year due to traffic congestion during the peak period Of this congestion 10% is attributable to improper operations of traffic signals Surprisingly more than a half of all signalized intersections in the United States needs to be re optimized immediately to maintain peak efficiency Even though many traffic signal control systems have been upgraded from pre timed controllers to actuated and adaptive controllers the traffic signal optimization software has not been kept current For example existing commercial traffic signal timing optimization programs including SYNCHRO and TRANSYT 7F do not optimize advanced controller settings available in the modern traffic controllers including minimum green time extension time and detector settings This is in part because existing programs are based on macroscopic simulation tools that do not explicitly consider individual vehicular movements To overcome such a shortcoming a stochastic optimization method SOM was proposed and successfully applied to a signalized corridor in Northern Virginia This study presents enhancements made in the SOM and case study results from an arterial network consisting of 16 signalized intersections The proposed method employs a distributed computing environment DCE for faster computation time and uses a shuffled frog leaping algorithm SFLA for better optimization The case study results showed that the proposed enhanced SOM method called SFLASOM improved the total network travel times over field settings by 3 5% for Mid Day and 2 1% for PM Peak In addition corridor travel times were improved by 2 3% to 17 9% over field settings However when the new SOM timing plan was compared to the new field timing plan implemented in July 2008 the improvements were marginal showing slightly over 2% reductions in individual vehicular delay **Unmanned Driving Systems for Smart Trains** Hui

Liu,2020-11-13 Unmanned Driving Systems for Smart Trains explores the core technologies involved in unmanned driving systems for smart railways and trains from foundational theory to the latest advances The volume introduces the key technologies research results and frontiers of the field Each chapter includes practical cases to ground theory in practice Seven chapters cover key aspects of unmanned driving systems for smart trains including performance evaluation algorithm based reasoning and learning strategy main control parameters data mining and processing energy saving optimization and control and intelligent algorithm simulation platforms This book will help researchers find solutions in developing better unmanned driving systems Responds to the expansion of smart railways and the adoption of unmanned global systems Covers core technologies of unmanned driving systems for smart trains Details a large number of case studies and experimental designs for unmanned railway systems Adopts a multidisciplinary view where disciplines intersect at key points Gives both foundational theory and the latest theoretical and practical advances for unmanned railways *Proceedings of the ... ASME Design Engineering Technical Conferences* ,2003 *Forthcoming Books* Rose Arny,2001 **Aerospace Engineering** ,1998 Open education for sustainable development: Contributions from emerging technologies and educational innovation Maria-Soledad Ramirez-Montoya,Carina Soledad González González,Diana Hernández Montoya,Edgar Omar Lopez-Caudana,Guillermo Rodríguez-Abitia,2023-03-24 **Automotive Engineering International** ,2005 **Automotive Engineering** ,1997 **Manufacturing Science and Technology, ICMST2011** Wu Fan,2011-11-22 Selected peer reviewed papers from the 2011 International Conference on Manufacturing Science and Technology ICMST 2011 September 16 18 2011 Singapore Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD). ,1996 **Mechatronics Engineering, Computing and Information Technology** X.D. Xu,Bin Li,Q.M. Lu,X.Y. Yan,J.L. Li,2014-05-23 Selected peer reviewed papers from the 2014 International Conference on Mechatronics Engineering and Computing Technology ICMECT 2014 April 9 10 2014 Shanghai China **Computer Aided Control Systems Design, CACSD '97** L. Boullart,Mia Loccufier,Sven Erik Mattsson,1997 This volume contains the proceedings of the 7th IFAC Symposium on Computer Aided Control Systems Design CACSD 97 held in Gent Belgium on 28 30 April 1997 It presents a high standing scientific contribution to the challenging field of CACSD and gives an excellent preview of current research which in coming years will undoubtedly offer many useful results The topics covered include control systems design special architectures for CACSD software for CACSD hybrid discrete event and real time systems symbolic and numerical computations algorithms for CACSD CACSD support environments planning and manufacturing system modelling and simulation optimization robust control intelligent controller design and applications The volume comprises 61 full papers and a challenging keynote address by Professor Georg Gruuml bel from the DLR Institute of Robotics and System Dynamics Germany

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