

Ninad Gondhalekar

Cascade control of DC brushed motor

Master's Thesis

Cascade Control Of Dc Brushed Motor

Mohd Hasnun Arif Hassan



Cascade Control Of Dc Brushed Motor:

Cascade control of DC brushed motor Ninad Gondhalekar, 2014-11-10 Master's Thesis from the year 2014 in the subject Electrotechnology grade Distinction University of Newcastle upon Tyne language English abstract The aim of this project is to control speed of permanent magnet DC motor by using technique called cascade control In this project the working of PMDC motor H bridge using unipolar switching scheme PI controller in current loop and speed loop of cascade control is first studied by simulating in MATLAB software and after that practically applied cascade control on PMDC motor using flexible inverter board In this project dsPIC30F3010 is programmed and armature current and armature voltage is controlled by inner current loop and outer speed loop of cascade control In this project investigation of effect of anti windup C code on drive performance is done The flexible board has microcontroller current sensor and H bridge circuit on it which will be used to supply voltage to PMDC motor As a PMDC motor DC motor rig is used which has two identical DC motor coupled together and one motor have encoder fitted on it and other motor have tachogenerator fitted on it Electric Drives Ion Boldea, Syed A. Nasar, 2016-09-15 Electric Drives provides a practical understanding of the subtleties involved in the operation of modern electric drives The Third Edition of this bestselling textbook has been fully updated and greatly expanded to incorporate the latest technologies used to save energy and increase productivity stability and reliability Every phrase equation number and reference in the text has been revisited with the necessary changes made throughout In addition new references to key research and development activities have been included to accurately reflect the current state of the art Nearly 120 new pages covering recent advances such as those made in the sensorless control of AC motor drives have been added as have two new chapters on advanced scalar control and multiphase electric machine drives All solved numerical examples have been retained and the 10 MATLAB Simulink programs remain online Thus Electric Drives Third Edition offers an up to date synthesis of the basic and advanced control of electric drives with ample material for a two semester course at the university level **Handbook of Fractional-Horsepower Drives** Hans-Dieter Stoelting, Eberhard Kallenbach, Wolfgang Amrhein, 2008-04-29 Aimed at engineers in product development as well as advanced students of electrical engineering control and mechatronics this is the first English language edition of the bestselling German book in which the authors address the issue of fractional horsepower drives They are crucial for all kinds of products from simple domestic utensils to the most complex and advanced technological applications This handbook gives a practical overview on all of the available drives *Intelligent Manufacturing & Mechatronics* Mohd Hasnun Arif Hassan, 2018-04-27 This book presents the proceedings of SymptoSIMM 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 **Electric Drives, Second Edition** Ion Boldea, Syed A. Nasar, 2005-08-22 Electric drives are everywhere and with the looming promise of electric vehicles and renewable energy they will become more complex and the demands on their capabilities will continue to increase To keep up with these trends students require hands on knowledge and a keen understanding of the subtleties involved in the operation of modern electric drives The best selling first edition of Electric Drives provided such an understanding and this Second Edition offers the same approach with up to date coverage of all major types of electric drives both constant and variable speed This book provides a self contained treatment of low medium and large power drives illustrated by numerous application examples problems digital simulation results and test results for both steady state and dynamic operation This edition features updated material in every chapter including references new material on AC brush series motors capacitor split inductor motors single phase PMSMs and switched reluctance motors and tooth wound PMSMs all with numerical examples new case studies on AC synchronous and induction motors and a new chapter on control of electric generators The companion CD ROM features the full text class slides for instructors and MATLAB simulations of 10 closed loop drives two of which are new to this edition With a practical hands on approach Electric Drives Second Edition is the ideal textbook to help students design simulate build and test modern electric drives from simple to complex

Principles of Electric Motors and Control Gordon Fox, 1924 *Analysis and Control of Electric Drives* Ned Mohan, Siddharth Raju, 2020-08-27 A guide to drives essential to electric vehicles wind turbines and other motor driven systems Analysis and Control of Electric Drives is a practical and comprehensive text that offers a clear understanding of electric drives and their industrial applications in the real world including electric vehicles and wind turbines The authors noted experts on the topic review the basic knowledge needed to understand electric drives and include the pertinent material that examines DC and AC machines in steady state using a unique physics based approach The book also analyzes electric machine operation under dynamic conditions assisted by Space Vectors The book is filled with illustrative examples and includes information on electric machines with Interior Permanent Magnets To enhance learning the book contains end of chapter problems and all topics covered use computer simulations with MATLAB Simulink and Sciamble Workbench software that is available free online for educational purposes This important book Explores additional topics such as electric machines with Interior Permanent Magnets Includes multiple examples and end of chapter homework problems Provides simulations made using MATLAB Simulink and Sciamble Workbench free software for educational purposes Contains helpful presentation slides and Solutions Manual for Instructors simulation files are available on the associated website for easy implementation A unique feature of this book is that the simulations in Sciamble Workbench software can seamlessly be used to control experiments in a hardware laboratory Written for undergraduate and graduate students Analysis and Control of Electric Drives is an essential guide to understanding electric vehicles wind turbines and

increased efficiency of motor driven systems

Recent Advances in Automation, Robotics and Measuring Techniques

Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2014-07-08 This book presents the recent advances and developments in control automation robotics and measuring techniques It presents contributions of top experts in the fields focused on both theory and industrial practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The book presents the results of the International Conference AUTOMATION 2014 held 26-28 March 2014 in Warsaw Poland on Automation Innovations and Future Prospectives The presented theoretical results practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems

Energy-Based Control of Electromechanical Systems Victor Manuel Hernández-Guzmán, Ramón Silva-Ortigoza, Jorge Alberto Orrante-Sakanassi, 2020-12-01 This book introduces a passivity based approach which simplifies the controller design task for AC motors It presents the application of this novel approach to several classes of AC motors magnetic levitation systems microelectromechanical systems MEMS and rigid robot manipulators actuated by AC motors The novel passivity based approach exploits the fact that the natural energy exchange existing between the mechanical and the electrical subsystems allows the natural cancellation of several high order terms during the stability analysis This allows the authors to present some of the simplest controllers proposed in scientific literature but provided with formal stability proofs These simple control laws will be of use to practitioners as they are robust with respect to numerical errors and noise amplification and are provided with tuning guidelines Energy based Control of Electromechanical Systems is intended for both theorists and practitioners Therefore the stability proofs are not based on abstract mathematical ideas but Lyapunov stability theory Several interpretations of the proofs are given along the body of the book using simple energy ideas and the complete proofs are included in appendices The complete modeling of each motor studied is also presented allowing for a thorough understanding Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

New Approaches in Automation and Robotics

Harald Aschemann, 2008-05-01 The book New Approaches in Automation and Robotics offers in 22 chapters a collection of recent developments in automation robotics as well as control theory It is dedicated to researchers in science and industry students and practicing engineers who wish to update and enhance their knowledge on modern methods and innovative applications The authors and editor of this book wish to motivate people especially under graduate students to get involved with the interesting field of robotics and mechatronics We hope that the ideas and concepts presented in this book are useful for your own work and could contribute to problem solving in similar applications as well It is clear however that the wide area of automation and robotics can only be highlighted at several spots

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