

ELECTRIC MOTOR DRIVES

Modeling, Analysis, and Control

R. KRISHNAN





Electric Motor Drives Modelling And Analysis Krishnan

Marco Cascella

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Electric Motor Drives Ramu Krishnan, 2001 For introductory senior level and graduate level courses in electric drives power electronics. The book develops a systematic approach to motor drives. While the emphasis is on practice extensive modeling simulation and analysis is developed to assist readers in their understanding of the subject matter from fundamental principles Also each motor drive is illustrated with an industrial application in detail at the end of chapters to enable readers to relate theory to practice High Performance AC Drives Mukhtar Ahmad, 2010-09-08 Variable speed is one of the important requirements in most of the electric drives Earlier dc motors were the only drives that were used in industries requiring eration over a wide range of speed with step less variation or requiring fine ac racy of speed control Such drives are known as high performance drives AC tors because of being highly coupled non linear devices can not provide fast dynamic response with normal controls However recently because of ready availability of power electronic devices and digital signal processors ac motors are beginning to be used for high performance drives Field oriented control or vector control has made a fundamental change with regard to dynamic perfo ance of ac machines Vector control makes it possible to control induction or s chronous motor in a manner similar to control scheme used for the separately cited dc motor Recent advances in artificial intelligence techniques have also contributed in the improvement in performance of electric drives This book presents a comprehensive view of high performance ac drives It may be considered as both a text book for graduate students and as an up to date monograph It may also be used by R D professionals involved in the impro ment of performance of drives in the industries The book will also be beneficial to the researchers pursuing work on sensorless and direct torque control of electric drives as up to date references in these topics are provided Electric Motor Drives Ramu Krishnan, 2003 Induction Motor Control Design Riccardo Marino, Patrizio Tomei, Cristiano M. Verrelli, 2010-08-20 This book provides the most important steps and concerns in the design of estimation and control algorithms for induction motors A single notation and modern nonlinear control terminology is used to make the book accessible although a more theoretical control viewpoint is also given Focusing on the induction motor with the concepts of stability and nonlinear control theory given in appendices this book covers speed sensorless control design of adaptive observers and parameter estimators a discussion of nonlinear adaptive controls containing parameter estimation algorithms and comparative simulations of different control algorithms. The book sets out basic assumptions structural properties modelling state feedback control and estimation algorithms then moves to more complex output feedback control algorithms based on stator current measurements and modelling for speed sensorless control The induction motor exhibits many typical and unavoidable nonlinear features Switched Reluctance Motor Drives R. Krishnan, 2017-12-19 The switched reluctance machine SRM is the least expensive electrical machine to produce yet one of the most reliable As such research has blossomed during the last decade and the SRM and variable drive systems using SRMs are receiving considerable attention

from industry Because they require a power electronic converter and controller to function however successful realization of an SRM variable drive system demands an understanding of the converter and controller subsystems and their integration with the machine Switched Reluctance Motor Drives provides that understanding It presents a unified view of the machine and its drive system from all of its system and subsystem aspects With a careful balance of theory and implementation the author develops the analysis and design of SRMs from first principles introduces a wide variety of power converters available for driving the SRM and systematically presents both low and high performance controllers The book includes an in depth study of acoustic noise and its minimization along with application examples that include comparisons between ac and dc drives and SRM drive The result is the first book that provides a state of the art knowledge of SRMs power converters and their use with both sensor based and sensorless controllers Switched Reluctance Motor Drives enables both students and engineers to learn all aspects of SRM drive systems and appreciate the interdependence of the various subsystems in performance optimization Handbook of Automotive Power Electronics and Motor Drives Ali Emadi, 2017-12-19 Initially the only electric loads encountered in an automobile were for lighting and the starter motor Today demands on performance safety emissions comfort convenience entertainment and communications have seen the working in of seemingly innumerable advanced electronic devices Consequently vehicle electric systems require larger capacities and more complex configurations to deal with these demands Covering applications in conventional hybrid electric and electric vehicles the Handbook of Automotive Power Electronics and Motor Drives provides a comprehensive reference for automotive electrical systems. This authoritative handbook features contributions from an outstanding international panel of experts from industry and academia highlighting existing and emerging technologies Divided into five parts the Handbook of Automotive Power Electronics and Motor Drives offers an overview of automotive power systems discusses semiconductor devices sensors and other components explains different power electronic converters examines electric machines and associated drives and details various advanced electrical loads as well as battery technology for automobile applications As we seek to answer the call for safer more efficient and lower emission vehicles from regulators and consumer insistence on better performance comfort and entertainment the technologies outlined in this book are vital for engineering advanced vehicles that will satisfy these criteria **Experimental and Computational Investigations in Engineering Nenad** Mitrovic, Goran Mladenovic, Aleksandra Mitrovic, 2020-09-04 This proceedings book is a collection of high quality peer reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies CNNTech2020 held at Zlatibor Serbia from 29th June to 2nd July 2020 The book discusses a wide variety of industrial engineering and scientific applications of the engineering techniques Researchers from academia and industry present their original work and exchange ideas experiences information techniques applications and innovations in the field of mechanical engineering materials science chemical and process engineering experimental techniques numerical methods

and new technologies **Inverters and AC Drives** Narayanaswamy P.R. Iyer, 2024-12-26 Successful development of power electronic converters and converter fed electric drives involves system modeling analyzing the output voltage current electromagnetic torque and machine speed and making necessary design changes before hardware implementation Inverters and AC Drives Control Modeling and Simulation Using Simulink offers readers Simulink models for single multi triangle carrier selective harmonic elimination and space vector PWM techniques for three phase two level multi level including modular multi level Z source Quasi Z source switched inductor switched capacitor and diode assisted extended boost inverters six step inverter fed permanent magnet synchronous motor PMSM brushless DC motor BLDCM and induction motor IM drives vector controlled PMSM IM drives direct torque controlled inverter fed IM drives and fuzzy logic controlled converter fed AC drives with several examples and case studies Appendices in the book include source codes for all relevant models model projects and answers to selected model projects from all chapters This textbook will be a valuable resource for upper level undergraduate and graduate students in electrical and electronics engineering power electronics and AC drives It is also a hands on reference for practicing engineers and researchers in these areas **Electric Machines for Smart Grids Applications** Adel El-Shahat, 2018-12-12 In this book highly qualified scientists present their recent research motivated by the importance of electric machines It addresses advanced studies for high speed electrical machine design mechanical design of rotors with surface mounted permanent magnets design of motor drive for brushless DC motor single phase motors for household applications battery electric propulsion systems for competition racing applications robust diagnosis by observer using the bond graph approach a DC motor simulator based on virtual instrumentation start up of a PID fuzzy logic embedded control system for the speed of a DC motor using LabVIEW advanced control of the permanent magnet synchronous motor and optimization of fuzzy logic controllers by particle swarm optimization to increase the lifetime in power electronic stages Intelligent Computing in Engineering Vijender Kumar Solanki, Manh Kha Hoang, Zhonghyu (Joan) Lu, Prasant Kumar Pattnaik, 2020-04-09 This book comprises select papers from the international conference on Research in Intelligent and Computing in Engineering RICE 2019 held at Hanoi University of Industry Hanoi Vietnam The volume focuses on current research on various computing models such as centralized distributed cluster grid and cloud The contents cover recent advances in wireless sensor networks mobile ad hoc networks internet of things machine learning grid and cloud computing and their various applications. The book will help researchers as well as professionals to gain insight into the rapidly evolving fields of internet computing and data mining **Design, Analysis and Operation of IPMSMs for HEV Applications** Abdul Rehman Tariq, 2010 Proceedings of ... International Conference on Power Electronics and Drive Systems ,2005 Proceedings, 2002 Modeling and High Performance Control of Electric Machines John Chiasson, 2005-04-07 Any electrical device that transmits or modifies energy to perform or assist in the performance of human tasks is an electric machine This technology is used daily in all industries around the world The author emphasizes in

this book the modeling and methods for high performance control of electric machines based on elementary classical physics with an emphasis on high performance control methods A major reason for writing this book was to make the modeling assumptions as clear as possible and to show that the magnetic and electric fields satisfy Maxwell s equations Midwest

IEEE International Symposium on Industrial Electronics Proceedings ,2002 7th International Workshop on Advanced Motion Control 2002 ,2002 Archives of Electrical Engineering ,2004 IEEE Proceedings of the Southeastcon ,1992 Proceedings of the IEEE International Conference on Industrial Technology (ICIT ...). ,2002 Design and Operation of Permanent Magnet Machine for Integrated Starter-generator Application in Series Hybrid Bus Sinisa Jurkovic,2009

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