



Ac Induction Motor Controllers Fsip

Kwang Hee Nam



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Solid-State AC Motor Controls Sylvestre Campbell, 2020-10-28 This book discusses the current status of the solid state AC motor controls It treats most technical phenomena in the empirical sense with emphasis on input output characteristics of solid state controls oriented at all times to their effect on the performance of the AC motor **AC Electric Motors Control**

Fouad Giri, 2013-03-25 The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics Recent advancements in control theory now make it possible to deal with long standing problems in AC motors control This text expertly draws on these developments to apply a wide range of model based control design methods to a variety of AC motors Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation optimal energetic efficiency and operation reliability and safety by considering online state variable estimation in the absence of mechanical sensors power factor correction machine flux optimization fault detection and isolation and fault tolerant control Describing the complete control approach both controller and observer designs are demonstrated using advanced nonlinear methods stability and performance are analysed using powerful techniques including implementation considerations using digital computing means Other key features Covers the main types of AC motors including triphase multiphase and doubly fed induction motors wound rotor permanent magnet and interior PM synchronous motors Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles high speed trains steel mills and more Includes special focus on sensorless nonlinear observers adaptive and robust nonlinear controllers output feedback controllers fault detection and isolation algorithms and fault tolerant controllers This comprehensive volume provides researchers and designers and R D engineers with a single source reference on AC motor system drives in the automotive and transportation industry It will also appeal to advanced students in automatic control electrical power systems mechanical engineering and robotics as well as mechatronic process and applied control system engineers

Applied Intelligent Control of Induction Motor Drives Tze Fun Chan, Keli Shi, 2011-01-19 Induction motors are the most important workhorses in industry They are mostly used as constant speed drives when fed from a voltage source of fixed frequency Advent of advanced power electronic converters and powerful digital signal processors however has made possible the development of high performance adjustable speed AC motor drives This book aims to explore new areas of induction motor control based on artificial intelligence AI techniques in order to make the controller less sensitive to parameter changes Selected AI techniques are applied for different induction motor control strategies The book presents a practical computer simulation model of the induction motor that could be used for studying various induction motor drive operations The control strategies explored include expert system based acceleration control hybrid fuzzy PI two stage control neural network based direct self control and genetic algorithm based extended Kalman filter for rotor speed estimation There are also chapters on neural network based parameter estimation genetic algorithm based optimized random PWM strategy

and experimental investigations A chapter is provided as a primer for readers to get started with simulation studies on various AI techniques Presents major artificial intelligence techniques to induction motor drives Uses a practical simulation approach to get interested readers started on drive development Authored by experienced scientists with over 20 years of experience in the field Provides numerous examples and the latest research results Simulation programs available from the book s Companion Website This book will be invaluable to graduate students and research engineers who specialize in electric motor drives electric vehicles and electric ship propulsion Graduate students in intelligent control applied electric motion and energy as well as engineers in industrial electronics automation and electrical transportation will also find this book helpful Simulation materials available for download at www.wiley.com/go/chanmotor

The Field Orientation Principle in Control of Induction Motors Andrzej Trzynadlowski, 1993-12-31 The Field Orientation Principle FOP constitutes a fundamental concept behind the modern technology of high performance vector controlled drive systems with AC motors The recent intense interest in these systems has been spawned by the widespread transition from DC to AC drives in industry Induction motors industry s traditional workhorses are particularly well suited for FOP based vector control The Field Orientation Principle in Control of Induction Motors presents the FOP in a simple easy to understand framework based on the space vector dynamic model of the induction machine Relationships between the classic phasor equivalent circuits of the motor and their vector counterparts are highlighted A step by step derivation of dynamic equations of the motor provides a formal background for explanation of the basic approaches to vector control In addition the author presents scalar control methods for low performance drives as an intermediate stage between uncontrolled and high performance drives The reader will also find a full chapter devoted to power inverters which constitute an important component of adjustable speed AC drive systems and a review of associated issues such as observers of motor variables parameter estimation adaptive tuning and principles of the position and speed control of field oriented induction motors With a wealth of numerical examples and computer simulations illustrating the ideas and techniques discussed and an extensive bibliography *The Field Orientation Principle in Control of Induction Motors* is a practical resource and valuable reference for researchers and students interested in motor control power and industrial electronics and control theory

AC Motor Control and Electrical Vehicle Applications Kwang Hee Nam, 2017-12-19 Motor control technology continues to play a vital role in the initiative to eliminate or at least decrease petroleum dependency and greenhouse gas emissions around the world Increased motor efficiency is a crucial aspect of this science in the global transition to clean power use in areas such as industrial applications and home appliances but particularly in the design of vehicles Summarizes the evolution of motor driving units toward high efficiency low cost high power density and flexible interface with other components *AC Motor Control and Electric Vehicle Applications* addresses the topics mentioned in its title but also elaborates on motor design perspective such as back EMF harmonics loss flux saturation and reluctance torque etc Maintaining theoretical integrity in AC motor modeling and control throughout the

author focuses on the benefits and simplicity of the rotor field oriented control describing the basics of PWM inverter and sensors He also clarifies the fundamentals of electric vehicles and their associated dynamics motor issues and battery limits A powerful compendium of practical information this book serves as an overall useful tool for the design and control of high efficiency motors

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

A Single Phase Induction Motor Voltage Controller with Improved Performance Joseph Daniel Law, 1984

Sensorless AC Electric Motor Control Alain Glumineau, Jesús de Leon Morales, 2015-03-16 This monograph shows the reader how to avoid the burdens of sensor cost reduced internal physical space and system complexity in the control of AC motors Many applications fields electric vehicles wind and wave energy converters and robotics among them will benefit Sensorless AC Electric Motor Control describes the elimination of physical sensors and their replacement with observers i e software sensors Robustness is introduced to overcome problems associated with the unavoidable imperfection of knowledge of machine parameters resistance inertia and so on encountered in real systems The details of a large number of speed and or position sensorless ideas for different types of permanent magnet synchronous motors and induction motors are presented along with several novel observer designs for electrical machines Control strategies are developed using high order sliding mode and quasi continuous sliding mode techniques and two types of observer controller schemes based on backstepping and sliding mode techniques are described Experimental results validate the performance of these observer and controller configurations with test trajectories of significance in difficult sensorless AC machine problems Control engineers working with AC motors in a variety of industrial environments will find the space and cost saving ideas detailed in Sensorless AC Electric Motor Control of much interest Academic researchers and graduate students from electrical mechanical and control engineering backgrounds will be able to see how advanced theoretical control can be applied in meaningful real systems

Ac Motors for High Performance Applications Sakae Yamamura, 1986-04-22

Induction Motors - Recent Advances, New Perspectives and Applications Adel El-Shahat, 2023-09-13 The induction motor is one of the most significant innovations in contemporary history and it officially kicked off the Second Industrial Revolution by

significantly enhancing energy generation efficiency Induction motors are utilized in a wide variety of applications in the modern industrial world Motivated by the importance of recent advances new perspectives and applications of induction motors this book presents research from distinguished experts in the field It addresses recent advances in induction motors optimal solutions in field oriented control the association of converters to induction motors dynamic analysis optimized design of synergetic control fault tolerant control mathematical modeling an adaptive system scheme for a sensorless drive modeling and simulation of a system with inter turn faults sensorless speed observer for industrial drives and induction motor applications in electric vehicles This book is useful for undergraduates graduate students researchers professors and field engineers due to its combination of both theoretical coverage and real world application concepts AC Induction Motor Control Using Neural Network Based Controllers Zafer Yücesoy,2003 Nearly 90% of all industrial motor applications use AC induction type motors since these motors have a high degree of robustness reliability and efficiency and are low cost In order to implement the rotor flux oriented control fast and accurate monitoring of the rotor magnetizing flux both in magnitude and in spatial distribution is required where the performance of the control method is very sensitive to the measurement and estimation of the quantities to be determined In this thesis the potential of neural networks in estimation of the flux components and in identifying the flux model of the induction machine is studied A pair of three layer feedforward neural networks with two hidden layers is suggested to be trained in order to identify the flux model of the induction machine The inputs which are applied to the system to be identified and to the identification model are randomly generated and the neural network models are trained to identify the flux model Before training the neural network models the input output variables are normalized and the flux model is constructed based on the normalized values By a trial and error method normalization constants are chosen sufficiently large to assure a fast learning Error backpropagation algorithm for training of multilayer neural networks is applied during the training process Because the selection of the number of layers the number of neurons learning rates for the learning algorithm and the momentum constants used for the improvement of training are also dependent on the problem we deal with many trials have been attempted Simulations show that a sufficiently trained neural network can replace a measurement device or estimation mechanism for the rotor flux space phasor components of the induction machine without deteriorating the field oriented control scheme applied to the induction machine Although some of the weights are deliberately eliminated or some inner computation of neural network models are forced to be performed not in a desired manner satisfactory operation of the whole model is achieved *AC Induction Motor Control* Bin Wan Teh,Queensland University of Technology. School of Electrical and Electronic Systems Engineering,1995

Single and Split Phase Induction Motor Controller Abdullah Rashid,Zualkafal Naeem,Waqas Malik,2012 This book is about single and split phase induction motor controller The features controlled are switching direction and speed of the motor through remote location PC and local location keypad while measuring and display the RPM of the motor on a

MONITOR SCREEN and LCD The industry mostly uses DC motor due to their easy control but they have their disadvantages of high maintenance cost and inability to work in corrosive or explosive environment The control of an AC motor are usually complex and require complex algorithms to be implemented but AC motors are light inexpensive and have lower maintenance cost This project enables us to control and monitor many AC motors with a simple control circuit The system consists of main blocks Speed Sensors Cycloconverters On and Off control Direction control Microcontroller PC programming PC interface

A Phaselock Speed Controller for a Single-phase AC Induction Motor Douglas Avern Peake,1986

Speed Control of Three Phase Ac Induction Motor Using Svm Farrukh Rashid,Mohsin Waqar,Umar Tabrez Shami,2014-09-03 The project we have chosen to implement Space Vector Modulation is very important from industrial point of view It is not uncommon to control the speed of induction motors according to the load demand attached with the motor There are different techniques to fulfill this demand Most common techniques are PWM techniques Every PWM technique has its own advantage and sometimes drawback So we the group members have implemented a control for induction motor which can control the speed of motor very effectively and efficiently SVM is different from other conventional PWM techniques in that it sees the inverter as a single unit and results in high efficiency high reliability smoother operation higher fundamental output voltage So this technique is preferred over the other techniques due to its desirable features

Vector Control of AC Drives Syed A. Nasar,2017-11-22 Alternating current AC induction and synchronous machines are frequently used in variable speed drives with applications ranging from computer peripherals robotics and machine tools to railway traction ship propulsion and rolling mills The notable impact of vector control of AC drives on most traditional and new technologies the multitude of practical configurations proposed and the absence of books treating this subject as a whole with a unified approach were the driving forces behind the creation of this book Vector Control of AC Drives examines the remarkable progress achieved worldwide in vector control from its introduction in 1969 to the current technology The book unifies the treatment of vector control of induction and synchronous motor drives using the concepts of general flux orientation and the feed forward indirect and feedback direct voltage and current vector control The concept of torque vector control is also introduced and applied to all AC motors AC models for drive applications developed in complex variables space phasors both for induction and synchronous motors are used throughout the book Numerous practical implementations of vector control are described in considerable detail followed by representative digital simulations and test results taken from the recent literature Vector Control of AC Drives will be a welcome addition to the reference collections of electrical and mechanical engineers involved with machine and system design

Power Electronic Control of AC Motors J. M. D. Murphy,F. G. Turnbull,1988

Electric Motor Control Sang-Hoon Kim,2017-05-09 Electric Motor Control DC AC and BLDC Motors introduces practical drive techniques of electric motors to enable stable and efficient control of many application systems also covering basic principles of high performance motor control techniques driving

methods control theories and power converters Electric motor drive systems play a critical role in home appliances motor vehicles robotics aerospace and transportation heating ventilating and cooling equipment s robotics industrial machinery and other commercial applications The book provides engineers with drive techniques that will help them develop motor drive system for their applications Includes practical solutions and control techniques for industrial motor drive applications currently in use Contains MATLAB Simulink simulation files Enables engineers to understand the applications and advantages of electric motor drive systems

AC Senkron Motorun Model Tabanlı Denetimi Remzi Artar, Şeniz Ertuğrul (Danışman.), Makina Fakültesi, 2009 AC motors are widely used in industry due to their advantages such as its low cost and maintenance free structures and the ability to be operated at higher speeds The development of Field Oriented Control FOC technique has led AC motors to be used in variable speed applications Currently the PID controller is widely used mainly due to its simplicity in structure However despite its widespread use PID controller does have a number of limitations One of the main drawbacks of PID controller is the task of tuning gains to achieve a set of desired closed loop performance in every condition In a typical FOC scheme there might be multiple PID loops that should be tuned simultaneously Since performance specifications generally conflict with each other the task of tuning gains to meet several closed loop performance specifications simultaneously requires considerable time and experience Model predictive control has recently been one of the most important methods for both linear and nonlinear systems In this study in order to eliminate the drawbacks of the PID controls and to improve the command tracking performance and the disturbance rejection response of the AC induction motor the model based controllers were developed Several simulations were performed to illustrate the tracking performance and robustness of the developed controllers To validate the effectiveness of the model predictive controller an experimental setup was designed It can be concluded that this technique can be effectively used in the industrial FOC applications to improve the stability and the robustness

A Test Platform for Measuring the Energy Efficiency of AC Induction Motors Under Various Loading Conditions and Control Schemes John Anthony Granata, Massachusetts Institute of Technology. Department of Electrical Engineering and Computer Science, 2012 A test platform was developed to measure and compare the energy efficiency of an AC induction motor under steady state and cyclical loading conditions while operating in both a constant speed mode and while performing speed to speed transitions The details of the construction are provided The motor under test is fully characterized and modeled in order to establish theoretical bounds for maximum efficiency operation In addition several custom motor controllers were created and the specifics of their implementation are given Results from tests on both commercial and custom controllers show the test platform to be a valuable tool for characterizing the energy efficiency of the AC induction motor while subjected to various loading conditions under the control of the different motor controllers

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