

Ac Machine Design Fundamentals Induction Motors Pm

Ion Boldea, Syed A. Nasar

Introduction to AC Machine Design Thomas A. Lipo, 2017-10-05 The only book on the market that emphasizes machine design beyond the basic principles of AC and DC machine behavior AC electrical machine design is a key skill set for developing competitive electric motors and generators for applications in industry, aerospace, and defense. This book presents a thorough treatment of AC machine design, starting from basic electromagnetic principles and continuing through the various design aspects of an induction machine. Introduction to AC Machine Design includes one chapter each on the design of permanent magnet machines, synchronous machines, and thermal design. It also offers a basic treatment of the use of finite elements to compute the magnetic field within a machine without interfering with the initial comprehension of the core subject matter. Based on the author's notes, as well as after years of classroom instruction, Introduction to AC Machine Design: Brings to light more advanced principles of machine design—not just the basic principles of AC and DC machine behavior Introduces electrical machine design to neophytes while also being a resource for experienced designers Fully examines AC machine design, beginning with basic electromagnetic principles Covers the many facets of the induction machine design Introduction to AC Machine Design is an important text for graduate school students studying the design of electrical machinery, and it will be of great interest to manufacturers of electrical machinery.

The Performance and Design of Alternating Current Machines Maurice George Say, 1952

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.

Introduction to AC Machine Design T. A. Lipo, 1996

The Induction Motor Henri Boy de la Tour, 1903

The Performance and Design of Alternating Current Machines M.G. Say, 1968

Induction Machines Handbook Ion Boldea, 2020-05-19 *Induction Machines Handbook: Transients, Control Principles, Design and Testing* presents a practical up-to-date treatment of intricate issues with induction machines (IM) required for design and testing in both rather constant- and variable-speed (with power electronics) drives. It contains ready-to-use industrial design and testing knowledge, with numerous case studies to facilitate a thorough assimilation of new knowledge. Individual Chapters 1 through 14 discuss in detail the following: Three- and multiphase IM transients Single-phase source IM transients Super-high-frequency models and behavior of IM Motor specifications and design principles IM design below 100 kW and constant V_1 and f_1 IM design above 100 kW and constant V_1 and f_1 IM design principles for variable speed Optimization design Single-phase IM design Three-phase IM generators Single-phase IM generators Linear induction motors Testing of three-phase IMs Single-phase IM testing Fully revised and amply updated to add the new knowledge of the last decade, this third edition includes special sections on Multiphase IM models for transients Doubly fed IMs models for transients Cage-rotor synchronized reluctance motors Cage-rotor PM synchronous motor Transient operation of self-excited induction generator Brushless doubly fed induction motor/generators Doubly fed induction generators with D.C. output Linear induction motor control with end effect Recent trends in IM testing with power electronics Cage-PM rotor line-start IM testing Linear induction motor (LIM) testing This up-to-date book discusses in detail the transients, control principles, and design and testing of various IMs for line-start and variable-speed applications in various topologies, with numerous case studies. It will be of direct assistance to academia and industry in conceiving, designing, fabricating, and testing IMs (for the future) of various industries, from home appliances, through robotics, e-transport, and renewable energy conversion.

The Induction Machine Handbook Ion Boldea, Syed A. Nasar, 2010-12-12 Often called the workhorse of industry, the advent of power electronics and advances in digital control are transforming the induction motor into the racehorse of industrial motion control. Now, the classic texts on induction machines are nearly three decades old, while more recent

books on electric motors lack the necessary depth and detail on ind

The Performance and Design of Alternating Current Machines Maurice George Say, Edward Nicholas Pink, 1936

Introduction to AC machine design T. A. Lipo, 2011

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.

Fundamentals of Electric Machines: A Primer with MATLAB Warsame Hassan Ali, Matthew N. O. Sadiku, Samir Abood, 2019-06-12 An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features of electrical dc and ac machines.

AC Machine Systems Jingde Gao, Linzheng Zhang, Xiangheng Wang, 2010-07-07 AC Machine Systems stresses both analysis methods and operating performances of AC machine systems, including variable speed drive system of AC machines with power electronics and control devices, power energy system composed of AC machines and power lines, special machine system with special machines and special loads, electric machine system consisting of AC machines and excitation devices. Based on a single coil, the Multi-Loop Theory is thoroughly described, and examples of how to use the new approach are

presented. This book provides a new way for analyzing the AC machine systems. This book is designed for the researchers and postgraduates in the field of electric machines and control. It's also a reference book for related technicians. This book is written in memory of Professor Jingde Gao, past-president of Tsinghua University, Member of Chinese Academy of Sciences. Another two authors, Linzheng Zhang and Xiangheng Wang both are Professors in Electrical Engineering Dept. of Tsinghua University.

AC Machine Design Fundamentals T. A. Lipo, 2017

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.

Vector Control of Three-Phase AC Machines Nguyen Phung Quang, Jörg-Andreas Ditttrich, 2015-05-14 This book addresses the vector control of three-phase AC machines, in particular induction motors with squirrel-cage rotors (IM), permanent magnet synchronous motors (PMSM) and doubly-fed induction machines (DFIM), from a practical design and development perspective. The main focus is on the application of IM and PMSM in electrical drive systems, where field-orientated control has been successfully established in practice. It also discusses the use of grid-voltage oriented control of DFIMs in wind power plants. This second, enlarged edition includes new insights into flatness-based nonlinear control of IM, PMSM and DFIM. The book is useful for practitioners as well as development engineers and designers in the area of electrical drives and wind-power technology. It is a valuable resource for researchers and students.

Electrical Machines Jacek F. Gieras, 2016-10-14 This book endeavors to break the stereotype that basic electrical machine courses are limited only to transformers, DC brush machines, induction machines, and wound-field synchronous machines. It is intended to serve as a textbook for basic courses on Electrical Machines covering the fundamentals of the electromechanical energy conversion, transformers, classical electrical machines, i.e., DC brush machines, induction machines, wound-field rotor synchronous machines and modern electrical machines, i.e., switched reluctance machines

(SRM) and permanent magnet (PM) brushless machines. In addition to academic research and teaching, the author has worked for over 18 years in US high-technology corporative businesses providing solutions to problems such as design, simulation, manufacturing and laboratory testing of large variety of electrical machines for electric traction, energy generation, marine propulsion, and aerospace electric systems.

Connecting Induction Motors Adolphus Mansfield Dudley, 1925

Induction Machines Alger, 1995-08-08 Written by one of the leaders in the field, this book serves as an essential reference for the future understanding and development of rotating electric machines. First published in 1970, this classic work has endured the last 25 years by offering a comprehensive study of the fundamentals of induction machine design and application. Starting with the first principles of electric circuits, the transformer, magnetic energy storage and the virtual displacement method of calculating magnetic forces, the equivalent circuit of a motor is developed, and the formulas for performance calculations are derived. Basic formulas for torque and output are included, and extensive consideration is given to the fundamental and harmonic magnetic fields produced in the air gap by various types of winding. Speed-torque-current relations, crawling and locking phenomena, magnetic noise, and the rating and application of motors is also covered.

Polyphase Induction Motors, Analysis Paul Cochran, 2018-10-08 Generously illustrated with over 1600 disply equations and more than 145 drawings, diagrams and photographs, this book is a handy, single-source reference suited to readers with a wide span of educational backgrounds and technical experience. Comprehensive in both scope and depth this manual covers all significant aspects of the field, such as Amperes Law and Faraday's Law, emphasizing basic explanations of motor behaviour, derives all important equations and relationships required to analyze, design and apply polyphase induction motors, uses worldwide SI units or international MKS system of units as well as practical units used in the US and shows how to apply working equations to real-life situations with numerical examples... and more.

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