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# AC Motor Control and Electrical Vehicle Applications



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**Adel El-Shahat**



## **Ac Motor Control And Electrical Vehicle Applications:**

**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

**AC Motor Control and Electric Vehicle Applications** Kwang Hee Nam, 2010

**AC Motor Control and Electrical Vehicle Applications** Kwang Hee Nam, 2018-09-03 AC Motor Control and Electrical Vehicle Applications provides a guide to the control of AC motors with a focus on its application to electric vehicles EV It describes the rotating magnetic flux based on which dynamic equations are derived The text not only deals with the induction motor but covers the permanent magnet synchronous motors PMSM Additionally the control issues are discussed by taking into account the limitations of voltage and current The latest edition includes more experimental data and expands upon the topics of inverter pulse width modulation methods loss minimizing control and vehicle dynamics Various EV motor design issues are also reviewed while comparing typical types of PMSMs Features Considers complete dynamic modeling of induction and PMSM in the rotating frame Provides various field oriented controls while covering advanced topics in PMSM high speed control loss minimizing control and sensorless control Covers inverter sensors vehicle dynamics driving cycles etc not just motor control itself Offers a comparison between BLDC surface PMSM and interior PMSM Discusses how the motor produces torque and is controlled based on consistent mathematical treatments

**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

*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

*Electric Vehicle Machines and Drives* K. T. Chau, 2015-08-24 A timely comprehensive reference consolidates the research and development of electric vehicle machines and drives for electric and hybrid propulsions Focuses on electric vehicle machines and drives Covers the major technologies in the area including fundamental concepts and applications Emphasis the design criteria performance analyses and application examples or potentials of various motor drives and machine systems Accompanying website includes the simulation models and outcomes as supplementary material

*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

*Electric Vehicle Tribology* Leonardo Israel Farfan Cabrera, Ali Erdemir, 2024-05-24 *Electric Vehicle Tribology* provides practical comprehensive guidance on a new and increasingly important area of tribology Building skills from fundamentals to solution design this book demonstrates the unique tribological techniques essential to the efficient electrification of transport systems Led by Professors with a combined three decades in industry and academia and collecting insights from experts around the world this book begins with the essential knowledge regarding both Electric Vehicles and tribology After outlining the unique tribological needs of EVs the book then breaks down the components and hardware required It provides detailed protocols and methods for the testing and improvement of lubricants and materials as well as a dedicated section on modern lubrication specific to EVs Throughout it considers the critical question of sustainable tribology and the long term sustainable options for lubrication and materials for electric vehicles A powerful tool for practical innovation *Electric Vehicle Tribology* is a cutting edge examination of a topic emerging as essential to the success of sustainable transport electrification Provides a thorough grounding in this multidisciplinary topic building from EV and tribology basics to complex practical uses Outlines case studies and testing protocols for engineers students and researchers Evaluates the latest opportunities in green EV tribology for a sustainable transport future

**Preliminary Power Train Design for a State-of-the-art Electric Vehicle**, 1978

**Electric Motor Control Systems and Methods** Henry Charles Horstmann, Victor Hugo Tousley, 1919

*Proceedings of the ... International Electric Vehicle Symposium*, 1992 **Electric Motors and Control Techniques** Irving Gottlieb, 1994-02-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product This book will show you how different types of motors operate and how electronic control devices can be used to improve efficiency in a wide range of applications Get greater flexibility reliability and reduced energy consumption from household appliances to automobiles This book will show you how different types of motors operate and how electronic control devices can be used to improve efficiency in a wide range of applications You'll get in depth updated coverage of Electric motor control applications dc and ac motors

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