

TZE-FUN CHAN | KELI SHI

APPLIED INTELLIGENT CONTROL OF INDUCTION MOTOR DRIVES



Campana (2018)



Applied Intelligent Control Of Induction Motor Drives

Richard Crowder



Applied Intelligent Control Of Induction Motor Drives:

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

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2023—Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Tran Trong Dao,Ivan Zelinka,Vo Hoang Duy,Jei-Pil Wang,Chau Si Thien Dong,Phuong T. Tran,2025-05-31 This book features selected papers from the 8th International Conference in Advanced Engineering Theory Applications AETA 2023 during 14 16 December in Busan Korea The topics of the papers cover three main topics energy energy saving power electronics electrical machines and drive systems green energy IT nontrivial dynamics of electronic devices control engineering robotics automatic control biosensor IT communication and security broadcasting IT communications cyber security Its content caters to researchers scientist and engineers who are interested in scientific achievements and advanced technologies of electrical electronic telecommunication computer science and mechanical mechatronics engineering **Electrical Motor Products** Jianfeng Yu,Ting Zhang,Jianming Qian,2011-09-16 Electrical motor products reviews the energy efficiency management laws for electrical motor products in United States European Union EU and China The energy efficiency certification requirements for the electrical motor products vary from country to country and are summarised here International standards testing methods and certification requirements for specific electrical motor products are discussed including electric motors pumps and fans Finally methods for improving energy efficiency are examined Reviews the energy efficiency management laws for electrical motor products in United States European Union EU and China Highlights the importance of energy efficiency for electrical motor products Documents energy efficiency certification requirements for electrical motor products and how they vary from country to country **Induction Motors** Raúl Gregor,2015-11-18 AC motors play a major role in modern industrial applications Squirrel cage induction motors SCIMs are probably the most frequently used when compared to other AC motors because of their low cost ruggedness and low maintenance The material presented in this book is organized into four sections covering the applications and structural properties of induction motors IMs fault detection and diagnostics control strategies and the more recently developed topology based on the multiphase more than three phases induction motors This material should be of specific interest to engineers and researchers who are engaged in the modeling design and implementation of control algorithms applied to induction motors and more generally to readers broadly interested in nonlinear control health condition monitoring and fault diagnosis **Electric Drives and Electromechanical Systems** Richard Crowder,2019-10-19 Electric Drives and Electromechanical Devices Applications and Control Second Edition presents a unified approach to the design and application of modern drive system It explores problems involved in assembling complete modern electric drive systems involving mechanical electrical and electronic elements This book provides a global overview of design specification applications important design information and methodologies This new

edition has been restructured to present a seamless logical discussion on a wide range of topical problems relating to the design and specification of the complete motor drive system. It is organised to establish immediate solutions to specific application problems. Subsidiary issues that have a considerable impact on the overall performance and reliability including environmental protection and costs, energy efficiency and cyber security are also considered. Presents a comprehensive consideration of electromechanical systems with insights into the complete drive system including required sensors and mechanical components. Features in-depth discussion of control schemes particularly focusing on practical operation. Includes extensive references to modern application domains and real world case studies such as electric vehicles. Considers the cyber aspects of drives including networking and security. Electric Vehicle Technology Dr. R. A. Kapgate, Amit Joshi, Dr. Pradeep Ammasaikutti, Dr. I. D. Soubache, 2025-09-27. Electric Vehicle EV Technology focuses on the design, development and operation of vehicles powered primarily by electric energy instead of conventional fossil fuels. It integrates knowledge from electrical engineering, power electronics, battery technology and control systems to enable efficient, sustainable and environmentally friendly transportation. The subject covers key areas such as battery management systems, electric motors, charging infrastructure, regenerative braking and vehicle-to-grid (V2G) technologies. It also explores trends in energy storage, renewable energy integration and the environmental impact of EV adoption. EV technology plays a critical role in reducing carbon emissions and advancing the future of sustainable mobility.

Recent Advances in Electrical and Information Technologies for Sustainable Development Soumia El Hani, Mohamad Essaïdi, 2019-02-08. The book includes the best extended papers which were selected from the 3rd International Conference of Electrical and Information Technologies (ICEIT 2017 Morocco). The book spans two inter-related research domains which shaped modern societies, solved many of their development problems and contributed to their unprecedented economic growth and social welfare. Selected papers are based on original and high quality research. They were peer-reviewed by experts in the field. They are grouped into five parts. Part I deals with Power System and Electronics topics that include Power Electronics, Energy Conversion, Actuators, Micro Nanotechnology etc. Part II relates to Control Systems and their applications. Part III concerns the topic of Information Technology that basically includes Smart Grid, Information Security, Cloud Computing, Distributed Big Data etc. Part IV discusses Telecommunications and Vehicular Technologies topics that include Green Networking and Communications, Wireless Ad hoc and Sensor Networks etc. Part V covers Green Applications and Interdisciplinary topics that include intelligent and Green Technologies for Transportation Systems, Smart Cities etc. This book offers a good opportunity for young researchers, novice scholars and the whole academic sphere to explore new trends in Electrical and Information Technologies.

Solving Transport Problems Walid Besbes, Diala Dhouib, Niaz Wassan, Emna Marrekchi, 2020-02-26. Solving Transport Problems establishes fundamental points and good practice in resolving matters regarding green transportation. This is to prompt further research in conveyance issues by providing readers with new knowledge and grounds for integrated

models and solution methods Focusing on green transportation this book covers various sub topics and thus consists of diverse content Traditionally academia and transport practitioners have mainly concentrated on efficient fleet management to achieve economic benefits and better quality service More recently due to growing public environmental concerns and the industry understanding of the issue the academic community has started to address environmental issues The studies of green transportation compiled in this book have identified certain areas of interest such as references viewpoints algorithms and ideas Solving Transport Problems is for researchers environmental decision makers and other concerned parties to start discussion on developing optimized technology and alternative fuel based integrated models for environmentally cleaner transport systems

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