

Modern Electrical Drives: Trends, Problems, and Challenges

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1. Introduction

Modern electrical drives possess many advantages. Electrical energy, compared to other sources, is easy to transport and can be environmentally friendly (if it comes from renewable sources). Electrical drives convert energy with high efficiency and have flexible control characteristics. They offer a wide range of speed, torque, and power operations. Furthermore, in general, they can serve as electrical generators.

With the growing demand for high-performance electrical drives, many universities and industrial researchers have focused on the problems surrounding the efficient, robust, precise, and fault-tolerant controls of these drives. In various industries, accurate control of electrical drives is crucial, from high-power drives evident in mining and petrochemical areas, to medium (automotive industries, robot arm drives, CNC machines) and small power drives (actuators), MEMS, etc.

In this Special Issue, the topics related to trends, problems, and challenges linked to the design and exploitation of modern electrical drives are presented. The submitted manuscripts, and those finally selected for publication in this Special Issue, focus on the trends, problems, and challenges in modern electrical drives. Very often, they are multidisciplinary works. In this Special Issue, 10 manuscripts were published that deal with the following topics: control strategies for different types of electrical motors [1–3], estimations of non-measurable states and parameters [3], sensorless control of electrical drives [1,2], the application of advanced control methodologies for high performance control of electrical drives [4–6], diagnoses, monitoring, and prognoses in electrical drives [7–10], and control of complex mechatronic systems, while taking the mechanical part of the system into account [3,4,6].

This publication is divided into two important sections; a short review of the contributions, where important contributions to the development of electric drives are presented, and a summary of the work.

2. A Short Review of the Contributions in This Issue

The main idea of the article [1] is to create a buffer power supply system for an asynchronous electrical drive, and to develop a strategy for a control system for this buffer power by using a bidirectional DC–DC converter. The article describes the process of creating a model of an electric drive, buffer source, control system, and frequency regulation based on MATLAB–Simulink. Simulations of the operations of this system were carried out together with a buffer source based on the supercapacitors. The adequacy and accuracy of the calculated mathematical expressions were proven. An algorithm for the operation of the control system for the buffer power source was proposed.

In [2], Bednarski et al. proposed and experimentally examined a family of generalized microstepping signal shapes for stepper motors. The authors provided the mathematical



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Modern Electrical Drives

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de Doncker**



Modern Electrical Drives:

Modern Electrical Drives H. Bülent Ertan, M. Yildirim Üçtug, Ron Colyer, Alfio Consoli, 2013-06-29 Electrical drives lie at the heart of most industrial processes and make a major contribution to the comfort and high quality products we all take for granted They provide the controller power needed at all levels from megawatts in cement production to milliwatts in wrist watches Other examples are legion from the domestic kitchen to public utilities The modern electrical drive is a complex item comprising a controller a static converter and an electrical motor Some can be programmed by the user Some can communicate with other drives Semiconductor switches have improved intelligent power modules have been introduced all of which means that control techniques can be used now that were unimaginable a decade ago Nor has the motor side stood still high energy permanent magnets semiconductor switched reluctance motors silicon micromotor technology and soft magnetic materials produced by powder technology are all revolutionising the industry But the electric drive is an enabling technology so the revolution is rippling throughout the whole of industry

Advanced Electric Drives Ned Mohan, 2014-07-22 With nearly two thirds of global electricity consumed by electric motors it should come as no surprise that their proper control represents appreciable energy savings The efficient use of electric drives also has far reaching applications in such areas as factory automation robotics clean transportation hybrid electric vehicles and renewable wind and solar energy resource management Advanced Electric Drives utilizes a physics based approach to explain the fundamental concepts of modern electric drive control and its operation under dynamic conditions Author Ned Mohan a decades long leader in Electrical Energy Systems EES education and research reveals how the investment of proper controls advanced MATLAB and Simulink simulations and careful forethought in the design of energy systems translates to significant savings in energy and dollars Offering students a fresh alternative to standard mathematical treatments of dq axis transformation of a b c phase quantities Mohan s unique physics based approach visualizes a set of representative dq windings along an orthogonal set of axes and then relates their currents and voltages to the a b c phase quantities Advanced Electric Drives is an invaluable resource to facilitate an understanding of the analysis control and modelling of electric machines Gives readers a physical picture of electric machines and drives without resorting to mathematical transformations for easy visualization Confirms the physics based analysis of electric drives mathematically Provides readers with an analysis of electric machines in a way that can be easily interfaced to common power electronic converters and controlled using any control scheme Makes the MATLAB Simulink files used in examples available to anyone in an accompanying website Reinforces fundamentals with a variety of discussion questions concept quizzes and homework problems

Handbook of Modern Electric Railway Methods and Practices American Transit Association, 1925

Applications of Modern Control to Electrical Drives Sergio Martínez Pitarch, 1997

Fundamentals of Electrical Drives André Veltman, Duco W.J. Pulle, R.W. de Doncker, 2007-06-14 Electrical drives in general play a key role in power generation household appliances

automotive and industrial applications The rapidly expanding area of adjustable speed drives as used in robotics wind turbines and hybrid vehicles is driven by innovations in machine design power semi conductors digital signal processors and simulation software Fundamentals of Electrical Drives is for readers with a basic engineering knowledge who have a need or desire to comprehend and apply the theory and simulation methods which are applied by drive specialist throughout the world **Modern Mining** ,1925 Electrical News. Generation, Transmission and Application of Electricity ,1923

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 problem 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 *Applied Control of Electrical Drives* Duco W. J. Pulle,Pete Darnell,André Veltman,2015-09-17 Provides an overall understanding of all aspects of AC electrical drives from the motor and converter to the implemented control algorithm with minimum mathematics needed Demonstrates how to implement and debug electrical drive systems using a set of dedicated hardware platforms motor setup and software tools in VisSim™ and PLECS™ No expert programming skills required allowing the reader to concentrate on drive development Enables the reader to undertake real time control of a safe low voltage and low cost experimental drive This book puts the fundamental and advanced concepts behind electric drives into practice Avoiding involved mathematics whenever practical this book shows the reader how to implement a range of modern day electrical drive concepts without requiring in depth programming skills It allows the user to build and run a series of AC drive concepts ranging from very basic drives to sophisticated sensorless drives Hence the book is the only modern resource available that bridges the gap between simulation and the actual experimental environment Engineers who need to implement an electrical drive or transition from sensed to sensorless drives as well as students who need to understand the practical aspects of working with electrical drives will greatly benefit from this unique reference **Modern Machinery** ,1907 **Modern Miller** ,1916 **Mechanical World** ,1929 **Modern Railroads** ,1949 Jute and Jute Spinning: Production of fibre, batching

and carding Thomas Woodhouse, Peter Kilgour, 1920 *General Electric Review* General Electric Company, 1922 **The**
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National Electric Light Association National Electric Light Association. Convention, 1925 **Marine Engineer and**
Motorship Builder, 1930 *The Electric Journal*, 1924

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