

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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