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***Power
Electronics
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This book is the
result of the
extensive

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experience the
authors gained
through their year-
long occupation at
the Faculty of
Electrical
Engineering at the
University of Banja
Luka. Starting at
the fundamental
basics of electrical
engineering, the

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book guides the reader into this field and covers all the relevant types of converters and regulators.

Understanding is enhanced by the given examples, exercises and solutions. Thus this book can be

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used as a textbook for students, for self-study or as a reference book for professionals.

This book aims to offer a thorough study and reference textbook on electrical machines and drives. The basic

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idea is to start from the pure electromagnetic principles to derive the equivalent circuits and steady-state equations of the most common electrical machines (in the first parts). Although the book mainly

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concentrates on rotating field machines, the first two chapters are devoted to transformers and DC commutator machines. The chapter on transformers is included as an introduction to

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induction and synchronous machines, their electromagnetics and equivalent circuits. Chapters three and four offer an in-depth study of induction and synchronous machines, respectively.

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Starting from their electromagnetics, steady-state equations and equivalent circuits are derived, from which their basic properties can be deduced. The second part discusses the main power-electronic

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supplies for electrical drives, for example rectifiers, choppers, cycloconverters and inverters. Much attention is paid to PWM techniques for inverters and the resulting harmonic

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content in the
output waveform.

In the third part,
electrical drives
are discussed,
combining the
traditional (rotating
field and DC
commutator)
electrical machines
treated in the first
part and the power

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electronics of part
two. Field

orientation of
induction and
synchronous
machines are
discussed in detail,
as well as direct
torque control. In
addition, also
switched
reluctance

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machines and stepping motors are discussed in the last chapters. Finally, part 4 is devoted to the dynamics of traditional electrical machines. Also for the dynamics of induction and

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synchronous machine drives, the electromagnetics are used as the starting point to derive the dynamic models.

Throughout part 4, much attention is paid to the derivation of

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analytical models.
But, of course, the
basic dynamic
properties and
probable causes of
instability of
induction and
synchronous
machine drives are
discussed in detail
as well, with the
derived models for

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stability in the small as starting point. In addition to the study of the stability in the small, a chapter is devoted to large-scale dynamics as well (e.g. sudden short-circuit of synchronous machines). The

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textbook is used
as the course text
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Parts 1 and 2 are taught in the basic course

□ Fundamentals of Electric Drives □ in the third bachelor.

Part 3 is used for the course

□ Controlled Electrical Drives □ in the first master, while Part 4 is

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used in the
specialised master
on electrical
energy.

As concerns about
climate change,
energy prices, and
energy security
loom, regulatory
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communities have
shown growing

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interest in
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sources and their
integration into
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systems. However,
many of the
candidate
microgeneration
and associated
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cannot be readily

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interfaced to the
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and Abu-Sara
introduce the
basics and
practical concerns
of analyzing and
designing such
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grid interface
systems. Readers
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familiar with
methods for stably
feeding the larger
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from the grid to
charge on-site
storage,
disconnecting from
the grid in case of

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grid failure, as well as connect multiple microgrids while sharing their loads appropriately. Sharkh and Abu-Sara introduce not only the larger context of the technology, but also present

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potential future applications, along with detailed case studies and tutorials to help the reader effectively engineer microgrid systems.

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needs of the
industry and

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provide the appropriate coverage of modern and conventional drives. With the large number of examples, problems, and solutions provided, Fundamentals of Electrical Drives,

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have many
applications in
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world. They
provide the
required power
to the
communication
backbones, they
are used in
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like laptops and
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widespread
applications in
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to just name a
few. DC-DC
converters
require negative
feedback to
provide a
suitable output
voltage or

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current for the load. Obtaining a stable output voltage or current in presence of disturbances such as: input voltage changes and/or output load changes seems impossible without some form of control.

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to train the art
of controller
design for DC-DC
converters.*

*Chapter 1
introduces the
DC-DC converters
briefly. It is
assumed that the
reader has the
basic knowledge
of DC-DC
converter (i.e.,*

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*The reader
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Chapter 2.*

*Simulation of DC-
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discussed in*

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this chapter as well. Extracting the dynamic models of DC-DC converters is studied in Chapter 3. We show how MATLAB® and a software named KUCA can be used to do the cumbersome and error-prone process of

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not an exception
by any means.

Keeping this in
mind, we design
the controllers
using MATLAB® in
Chapter 4.

Finally,
references are
provided at the
end of each
chapter to
suggest more
information for

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it has numerous
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grid. A microgrid is
defined as**

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and methods of
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converters, isolated
dc-to-dc converters,
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recently as 2002 do not discuss closed-loop operations, nor do they provide either DC closed-loop regulation equations or AC loop gain (stability) formulae. The author Wu, a leading engineer at Lockheed Martin, fills this gap and

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