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consolidates the research and
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- 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 •
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simulation models and outcomes as
supplementary material

The operation and analysis of
different types of electrical machines
and variable-speed drives is described
in this book, using space-vector
theory. The equations are arranged in
forms that can be directly used for

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The subject of this book is an important and diverse field of electric machines and drives. The twelve chapters of the book written by renowned authors, both academics and practitioners, cover a large part of the field of electric machines and

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drives. Various types of electric machines, including three-phase and single-phase induction machines or doubly fed machines, are addressed. Most of the chapters focus on modern control methods of induction-machine drives, such as vector and direct torque control. Among others, the

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book addresses sensorless control techniques, modulation strategies, parameter identification, artificial intelligence, operation under harsh or failure conditions, and modelling of electric or magnetic quantities in electric machines. Several chapters give an insight into the problem of

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minimizing losses in electric machines and increasing the overall energy efficiency of electric drives.

Presents applied theory and advanced simulation techniques for electric machines and drives This book combines the knowledge of experts from both academia and the software

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industry to present theories of multiphysics simulation by design for electrical machines, power electronics, and drives. The comprehensive design approach described within supports new applications required by technologies sustaining high drive efficiency. The highlighted framework

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considers the electric machine at the heart of the entire electric drive. The book also emphasizes the simulation by design concept—a concept that frames the entire highlighted design methodology, which is described and illustrated by various advanced simulation technologies. Multiphysics

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Simulation by Design for Electrical
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Drives begins with the basics of

electrical machine design and
manufacturing tolerances. It also
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state of the art design process and
includes examples from industrial

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practice. It explains FEM-based analysis techniques for electrical machine design—providing details on how it can be employed in ANSYS Maxwell software. In addition, the book covers advanced magnetic material modeling capabilities employed in numerical computation;

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design optimization and its integration
with power electronics and drives
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Drives is an incredibly helpful book

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for design engineers, application and system engineers, and technical professionals. It will also benefit graduate engineering students with a strong interest in electric machines and drives.

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Systems

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Control of Electrical Drives

Applied Electricity and Electronics

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**the concepts and
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theory and guidelines for the
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**of an induction motor is
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step sequence of machine
design, this book enables
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to design rotating electrical
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emerging technologies in the
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ubiquitous presence in our

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systems, this book:*

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and demonstrates their
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points presented in

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*chapters and develop them
further or introduce
additional aspects. The
book provides an
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physics upon which*

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*electric machines operate,
allowing students to
master the mathematical
skills that their modeling
and analysis requires.
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in predicting and
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performance of several
devices. The book is
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*transformers, and the
third chapter tackles d.c.
machines. Chapter 4 is
concerned with induction
machines, while Chapter 5
deals with synchronous
machines. Chapter 6 covers*

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Chapter 7 talks about power
r-electronic/electrical
machine drives. The book
will be of great use to
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their typical
applications. The effort
of applying coordinate
transforms is justified by
obtaining a more*

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*intuitive, concise and
easy-to-use model. In this
textbook, mathematics is
reduced to a necessary
minimum, and priority is
given to bringing up the
system view and explaining*

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machines on their
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electrical and mechanical
ports. Covering the most
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to machine size, torque*

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and power, the author explains the losses and secondary effects, outlining cases and conditions in which some secondary phenomena are neglected. While the goal

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*of developing and using
machine mathematical
models, equivalent
circuits and mechanical
characteristics persists
through the book, the
focus is kept on physical*

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conversion process.*

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shape and the disposition
of permanent magnets and
their effects on the*

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of the book reflects the
rapid changes that have
occurred in power
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entrance of power*

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*Design of Rotating
Electrical Machines
Electrical Machine Drives
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An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can

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take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world.

Electric machine blends the three major areas of electrical engineering: power, control and power electronics.

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This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features of electrical

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years of experience and the latest
research, Linear Electric Machines,
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provides a practical and comprehensive
resource on the steady improvement in

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transportation—of linear electric
machines. Additional topics include
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linear motion, from topologies through
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challenges in linear electric
motion/energy automatic control.

Electrical drives play an important part
as electromechanical energy converters
in transportation, materials handling
and most production processes. This
book presents a unified treatment of

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complete electrical drive systems,
including the mechanical parts,
electrical machines, and power

converters and control. Since it was
first published in 1985 the book has
found its way onto many desks in
industry and universities all over the

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world. For the second edition the text has been thoroughly revised and updated, with the aim of offering the reader a general view of the field of controlled electrical drives, which are maintaining and extending their importance as the most flexible source

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of controlled mechanical energy.

A self-contained, comprehensive and unified treatment of electrical

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been expanded and updated to include material which reflects current thinking and practice. All references have been updated to conform to the latest national (BS) and international (IEC) recommendations and a new appendix has been added which deals more fully

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with the theory of permanent-magnets, recognising the growing importance of permanent-magnet machines. The text is so arranged that selections can be made from it to give a short course for non-specialists, while the book as a whole will prepare students for more

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experience of more than 10
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applications, the author

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This book is devoted to students, PhD students, postgraduates of electrical engineering, researchers, and scientists dealing with the analysis, design, and optimization of electrical machine properties. The purpose is to

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present methods used for the analysis of transients and steady-state conditions. In three chapters the following methods are presented: (1) a method in which the parameters (resistances and inductances) are calculated on the

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basis of geometrical dimensions and material properties made in the design process, (2) a method of general theory of electrical machines, in which the transients are investigated in two perpendicular axes, and (3) FEM,

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which is a mathematical method applied to electrical machines to investigate many of their properties.

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prognosis of electrical machines and drives. The authors begin with foundational background, describing the physics of failure, the motor and drive designs and components that affect failure and signals, signal processing, and

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analysis. The book then moves on to describe the features of these signals and the methods commonly used to extract these features to diagnose the health of a motor or drive, as well as the methods used to identify the state

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of health and differentiate
between possible faults or their
severity. Fault Diagnosis,
Prognosis, and Reliability for
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discusses the tools used to
recognize trends towards failure

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and the estimation of remaining useful life. It addresses the relationships between fault diagnosis, failure prognosis, and fault mitigation. The book also provides: A thorough introduction to the modes of failure, how early

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failure precursors manifest themselves in signals, and how features extracted from these signals are processed A comprehensive exploration of the fault diagnosis, the results of characterization, and how they

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used to predict the time of failure
and the confidence interval
associated with it A focus on
medium-sized drives, including
induction, permanent magnet AC,
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researchers with a background in
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understanding of machine and

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drive principles by engineers of
many different disciplines.

Therefore, this book is intended to
give a comprehensive deduction of
these principles. Special attention
is given to the precise
mathematical deduction of the

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necessary formulae to calculate machines and drives, and to the discussion of simplifications (if applied) with the associated limits. So the book shows how the different machine topologies can be deduced from general

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fundamentals, and how they are linked. This book addresses graduate students, researchers and developers of Electrical Machines and Drives, who are interested in getting knowledge about the principles of machine

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and drive operation and in detecting the mathematical and engineering specialties of the different machine and drive topologies together with their mutual links. The detailed, but compact mathematical deduction,

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together with a distinct emphasis onto assumptions, simplifications and the associated limits, leads to a clear understanding of Electrical Machine and Drive topologies and characteristics.

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have reference covers power quality issues in four parts, including new discussions related to renewable energy systems. The first part of the book provides background on causes, effects, standards, and measurements of

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power quality and harmonics. Once the basics are established the authors move on to harmonic modeling of power systems, including components and apparatus (electric machines). The final part of the book is devoted to

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power quality mitigation
approaches and devices, and the
fourth part extends the analysis to
power quality solutions for
renewable energy systems.
Throughout the book worked
examples and exercises provide

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practical applications, and tables, charts, and graphs offer useful data for the modeling and analysis of power quality issues. Provides theoretical and practical insight into power quality problems of electric machines and systems 134

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practical application (example)
problems with solutions 125
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dealing with practical applications
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***A unique approach to sensorless
control and regulator design of***

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***electric drives Based on the
author's vast industry experience
and collaborative works with other
industries, Control of Electric
Machine Drive Systems is packed
with tested, implemented, and
verified ideas that engineers can
apply to everyday problems in the***

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*field. Originally published in Korean
as a textbook, this highly practical
updated version features the latest
information on the control of
electric machines and apparatus, as
well as a new chapter on sensorless
control of AC machines, a topic not
covered in any other publication.*

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The book begins by explaining the features of the electric drive system and trends of development in related technologies, as well as the basic structure and operation principles of the electric machine. It also addresses steady state characteristics and control of the

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*machines and the transformation of
physical variables of AC machines
using reference frame theory in
order to provide a proper
foundation for the material. The
heart of the book reviews several
control algorithms of electric
machines and power converters,*

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**explaining active damping and how
to regulate current, speed, and
position in a feedback manner.**

**Seung-Ki Sul introduces tricks to
enhance the control performance of
the electric machines, and the
algorithm to detect the phase angle
of an AC source and to control DC**

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***link voltages of power converters.
Topics also covered are: Vector
control Control algorithms for
position/speed sensorless drive of
AC machines Methods for
identifying the parameters of
electric machines and power
converters The matrix algebra to***

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***model a three-phase AC machine in
d-q-n axes Every chapter features
exercise problems drawn from
actual industry experience. The
book also includes more than 300
figures and offers access to an FTP
site, which provides MATLAB
programs for selected problems.***

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***The book's practicality and
realworld relatability make it an
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***professionals and engineers
involved in the research and
development of electric machine
drive business, industrial drive
designers, and senior***

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Traditionally, electrical machines
are classified into d. c. commutator
(brushed) machines, induction
(asynchronous) machines and
synchronous machines. These

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three types of electrical machines are still regarded in many academic curricula as fundamental types, despite that d. c. brushed machines (except small machines) have been gradually abandoned and PM brushless machines (PMBM) and switched reluctance machines

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(SRM) have been in mass production and use for at least two decades.

Recently, new topologies of high torque density motors, high speed motors, integrated motor drives and special motors have been developed. Progress in electric machines technology is stimulated

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by new materials, new areas of applications, impact of power electronics, need for energy saving and new technological challenges. The development of electric machines in the next few years will mostly be stimulated by computer hardware, residential and public

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***applications and transportation
systems (land, sea and air). At
many Universities teaching and
research strategy oriented towards
el- trical machinery is not up to date
and has not been changed in some
co- tries almost since the end of the
WWII. In spite of many excellent***

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*academic research achievements,
the academia–industry
collaboration and technology
transfer are underestimated or,
quite often, neglected.
Underestimation of the role of
industry, unfamiliarity with new
trends and restraint from*

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***technology transfer results, with
time, in lack of external financial
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Power Electrical Engineering.***

***An introductory text for electrical
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electromechanical energy
conversion, its utilization within
particular drive systems, its
practical implementation via power
electronic circuitry and its
relevance to integrated power
networks.*

This comprehensive text examines

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existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical

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machines. Also including links to a number of industrial applications, the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application. Key features: *
Provides a comprehensive

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***summary of all aspects of
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technology including control and
operation. * Handling of electrical
drives is solidly linked to the theory
and design of the associated
electrical machines. Added insight
into problems and functions are***

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*illustrated with clearly
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phenomena associated with
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Considers the problem of bearing
currents and voltage stresses of an
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*date theory and design guidelines,
taking into account the most recent
advances. This book's rigorous
coverage of theoretical principles
and techniques makes for an
excellent introduction to controlled-
speed electrical drive technologies
for Electrical Engineering MSc or*

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PhD students studying electrical drives. It also serves as an excellent reference for practicing electrical engineers looking to carry out design, analyses, and development of controlled-speed electrical drives.

Power Quality in Power Systems

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The purpose of this book is to
familiarize the reader with all

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aspects of electrical drives. It contains a comprehensive user-friendly introductory text.

Monitoring and diagnosis of electrical machine faults is a scientific and economic issue which is motivated by objectives

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for reliability and serviceability in electrical drives. This book provides a survey of the techniques used to detect the faults occurring in electrical drives: electrical, thermal and mechanical faults of the electrical machine, faults of the

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staticconverter and faults of the energy storage unit. Diagnosis of faults occurring in electrical drives is an essential part of a global monitoring system used to improve reliability and serviceability. This diagnosis is performed with a large

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variety of techniques: parameter estimation, state observation,

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Particular emphasis in this book is put on the modeling of the

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electrical machine in
faultysituations. Electrical Machines
Diagnosis presents original results
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researchers in different domains. It
will beuseful as a guideline for the
conception of more robust

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electricalmachines and indeed for
engineers who have to monitor and
maintainelectrical drives. As the
monitoring and diagnosis of
electricalmachines is still an open
domain, this book will also be
veryuseful to researchers.

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This book aims to offer a thorough study and reference textbook on electrical machines and drives. The basic idea is to start from the pure electromagnetic principles to derive the equivalent circuits and steady-state equations of the most

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common electrical machines (in the first parts). Although the book mainly concentrates on rotating field machines, the first two chapters are devoted to transformers and DC commutator machines. The chapter on

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transformers is included as an introduction to induction and synchronous machines, their electromagnetics and equivalent circuits. Chapters three and four offer an in-depth study of induction and synchronous machines,

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respectively. 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 supplies for

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electrical drives, for example
rectifiers, choppers,
cycloconverters and inverters.

Much attention is paid to PWM
techniques for inverters and the
resulting harmonic content in the
output waveform. In the third part,

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electrical drives are discussed, combining the traditional (rotating field and DC commutator) electrical machines treated in the first part and the power electronics of part two. Field orientation of induction and synchronous machines are

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discussed in detail, as well as direct
torque control. In addition, also
switched reluctance machines and
stepping motors are discussed in
the last chapters. Finally, part 4 is
devoted to the dynamics of
traditional electrical machines. Also

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for the dynamics of induction and 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 analytical models. But, of course,

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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 stability in the small as starting point. In addition to the

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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 textbook is used as the course text for the Bachelor's and Master's programme in electrical

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and mechanical engineering at the
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Architecture of Ghent University.

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Electric Drives" in the third
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course – Controlled Electrical
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and drives. It presents a detailed and unified mathematical and physical treatment, and contains many worked examples, presents numerous simulation results and shows a large number of experimental results obtained on

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have all been used at the
Pennsylvania State
University, Mckeesport
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were done in two***

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***where Electric Machines
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context of the overall
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