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and fall of businesses to the international

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edition documenting

the significant

improvements that

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tests and monitors of

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Insulation for Rotating

Machines: Design,

Evaluation, Aging,

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Second Edition covers

all aspects in the

design, deterioration,

testing, and repair of

the electrical insulation

used in motors and

generators of all

ratings greater than

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fractional horsepower size. It discusses both rotor and stator windings; gives a historical overview of machine insulation design; and describes the materials and manufacturing methods of the rotor and stator winding insulation systems in current use (while covering systems

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made over fifty years ago). It covers how to select the insulation systems for use in new machines, and explains over thirty different rotor and stator winding failure processes, including the methods to repair, or least slow down, each process. Finally, it reviews the theoretical basis,

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practical application, and interpretation of forty different tests and monitors that are used to assess winding insulation condition, thereby helping machine users avoid unnecessary machine failures and reduce maintenance costs. Electrical Insulation for Rotating Machines: Documents

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the large array of machine electrical failure mechanisms, repair methods, and test techniques that are currently available Educates owners of machines as well as repair shops on the different failure processes and shows them how to fix or otherwise ameliorate them Offers chapters

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on testing, monitoring,
and maintenance
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in educating machine
users and repair shops
on the tests needed for
specific situations and
how to minimize motor
and generator
maintenance costs

Captures the state of
both the present and
past “art” in rotating
machine insulation

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system design and manufacture, which helps designers learn from the knowledge acquired by previous generations. An ideal read for researchers, developers, and manufacturers of electrical insulating materials for machines, *Electrical Insulation for Rotating Machines* will also

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benefit designers of motors and generators who must select and apply electrical insulation in machines. This seventh edition of Fitzgerald and Kingsley's Electric Machinery by Stephen Umans was developed recognizing the strength of this classic text since its first edition has been the

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emphasis on building an understanding of the fundamental physical principles underlying the performance of electric machines.

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directly to must-know information, including how to determine wire sizes and make a variety of common switch connections. Different types of electrical power panels are also examined in detail. Discussion of general wiring practices and circuit protectors, as

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it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly.

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text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an

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understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers.

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As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked

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a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and

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students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard

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algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines.

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in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-solving skills using a variety of methods, and prepare them for research in electromagnetism.

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and senior-level courses in electric machines. The new edition features a wealth of new and improved problems and examples, designed to complement the authors' overall goal of encouraging intuitive reasoning rather than rote

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memorization of material. Chapter 3, which presents the conversion of energy, now includes: analysis of magnetically coupled coils, induced emf in a coil rotating in a uniform magnetic field, induced emf in a coil rotating in a time-varying

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Introduction to Electrical Machines

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Fundamentals continues to be a best-selling machinery text due to its accessible, student-friendly coverage of the important topics in the field. Chapman's clear writing persists in being one of the top features of the book.

Although not a book on

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enhanced in the fourth

edition. Additionally,

many new problems

have been added and

remaining ones

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Fundamentals is also

accompanied by a

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MATLAB tools, and links to important sites for students.

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 common

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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 transformers is included as an introduction to induction and synchronous machines,

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their electromagnetics and equivalent circuits.

Chapters three and four offer an in-depth study of induction and

synchronous machines, respectively. Starting

from their

electromagnetics, steady-state equations and

equivalent circuits are derived, from which

their basic properties can be deduced. The

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second part discusses
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the main power-
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electronic supplies for
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

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part, 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 discussed in detail, as well as direct torque

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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 for the dynamics of induction and synchronous machine drives, the electromagnetics are used as the starting

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point to derive the dynamic models.

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

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

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mechanical engineering
at the Faculty of
Engineering and

Architecture of Ghent University. 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 used in the specialised

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master on electrical energy.

This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

Written for non-

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specialist users of electric motors and drives, this book explains how electric drives work and compares the performance of the main systems, with many examples of applications. The author's approach - using a minimum of mathematics - has made this book equally

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popular as an outline for professionals and an introductory student

*text. * First edition*

(1990) has sold over

6000 copies. Drives and

Controls on the first

edition: 'This book is

very readable, up-to-

date and should be

extremely useful to both

users and o.e.m.

designers. I

unhesitatingly

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*recommend it to any busy engineer who needs to make informed judgements about selecting the right drive system.' New features of the second edition: **

- New section on the cycloconverter drive. **
- More on switched reluctance motor drives.*
- * More on vector-controlled induction motor drives. * More on*

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power switching

*devices. * New 'question*

and answer' sections on

common problems and

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Updating throughout.

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is too academic for the average user) and the more prosaic

'handbooks' which are filled with useful detail but provide little opportunity for the development of any real insight or understanding. The book explores most of the widely-used modern types of motor and drive, including

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*conventional and
brushless d.c., induction
motors (mains and
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and operations.
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dealing with
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include
electric motor-
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test cell
services and th

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methods are

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in addition to
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introductory text in power electronics, primarily for the undergraduate electrical engineering student. The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit

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solution techniques.
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completion of a first year degree level course. Thus, this

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making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content

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change is under debate in the United States and is likely to result in a cap on greenhouse gas emissions for utilities. This and other developments will prompt utilities to

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Smart Power examines the many facets of this unprecedented transformation. This enlightening book begins with a look back on

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the deregulatory efforts of the 1990s and their gradual replacement by concerns over climate change, promoting new technologies, and developing stable prices and supplies. In

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thorough but non-technical terms it explains the revolutionary changes that the Smart Grid is bringing to utility operations. It also examines the options for low-carbon emissions along

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with the real-world challenges the industry and its regulators must face as the industry retools and finances its new sources and systems.

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insights into the policy choices and regulatory reform needed to face these challenges. He not only weighs the costs and benefits of every option, but presents interviews with

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informed experts, including economists, utility CEOs, and engineers. He gives a brief history of the development of the current utility business model and examines possible new

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