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Systems Engineering -
Exploring Smart Grids
17. (Yesterday's \u0026)

Today's Electric Power
System Overview of
electric power systems -
Sustainable Energy -
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Multi Energy Systems
"As a power system
engineer, there's really
no better place than

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~~New York ISO\~~"

Power System Studies -
Load flow, power factor
correction and
harmonicsPower
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MSc The University of
Manchester Master
(MSc) Electrical Power
Systems Engineering at
the University of
Manchester MIT

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graduates cannot power a light bulb with a battery. Understanding Your Home's Electrical System: The Main Panel

Digital Electricity is a Gamechanger
How Does the Power Grid Work? Volts, Amps, and Watts Explained
~~Why 3 Phase Power? Why not 6 or 12?~~

The Journey of
Page 7/85

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Systems Energy

Lec 1 | MIT 6.01SC

Introduction to

Electrical Engineering
and Computer Science

I, Spring 2011

~~Eaton's
PSEC - Harmonics~~

VFD Harmonics and
Power Quality Overview
of Power System Basics -
IEEE PES PLAIN

TALK How

~~ELECTRICITY works
- working principle Best~~

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Standard Books for
electrical engineering
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power system analysis
books for electrical
engineering students

~~Best Standard Books for
GATE (EE) | Important
Theory Books \u0026
Question Bank |~~

~~Kreatryx Lidia Icardi:
Electrical power systems
engineer~~

Power Systems

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Engineering - Short
circuit coordination and
arc flash studies

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Systems Engineering is
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delivered online using
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We require a good
Upper Second Class
Honours degree or
international equivalent
in an electrical and
electronic engineering
discipline. When

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assessing your academic record, we take into account your grade average with particular emphasis on relevant course units and the standing of the institution where you studied your qualification.

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From a general perspective, an electric power system is usually understood as a very large network that links power plants (large or small) to loads, by means of an electric grid that may span a whole continent, such as Europe or North America.

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~~Electric Power Systems~~ (~~Generation ...~~

This MSc recognises the need for skilled graduates to address the world ' s major issues in electrical power and energy systems. It offers an integrated programme that delivers advanced-level traditional power engineering subjects, complemented by a

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Systems of modules that
are critical to the
management of a
modern energy system.

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Energy Systems |
University of ...~~

The power systems team
delivers work in power
systems analysis, grid
integration, innovation,
regulation, ... Educated
to degree level in

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Systems Engineering
or a Chartered
Electrical Engineer
(CEng equivalent), you
have gained substantial
experience in an
Electrical ...

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Jobs November 2020 |
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Power Systems
Engineering Power
Engineering is a subfield

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of engineering that deals with the generation transmission and distribution of electricity, as well as the electrical devices connected to such systems, including generators motors and transformers.

~~Power Systems
Engineering |
Department of~~

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Electrical Energy engineers have a wide range of job opportunities.

Graduates of the specialisation in Electrical Power Systems and High Voltage Engineering can work in project engineering, research, development and management in Danish

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Systems and High
Voltage Engineering ...~~
Our Electrical Power
MSc covers all major
disciplines of electrical
power. You'll deepen
your knowledge,
commercial awareness
and technical ability to

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Postgraduate
Newcastle University~~

Electric power has become increasingly

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Systems as a way of transmitting and transforming energy in industrial, military and transportation uses.

Electric power systems are also at the heart of alternative energy systems, including wind and solar electric, geothermal and small scale hydroelectric generation.

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~~Introduction to Electric
Power Systems |
Electrical ...~~

Electric Power Systems
is a NETA Certified,
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Organization. We
specialize in
commissioning, start up,
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for Utility, Industrial,
Transit, Data Centers,
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Engineering

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Testing & Engineering
Services~~

Welcome to Power System Engineering (PSE), a full-service consulting firm for electric utilities, independent power producers, industrial facility owners, energy resource developers, and

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industry-leading
engineering, economic,
and planning solutions
to utilities of all types.

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Electrical power systems
are playing a pivotal
role in the development
of a sustainable energy

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Systems, enabling renewable energy generation.

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University of ...~~

Power engineering, also called power systems engineering, is a subfield of electrical engineering that deals with the generation, transmission,

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Electrical Power Systems, and distribution, and utilization of electric power, and the electrical apparatus connected to such systems.

~~Power engineering~~

~~Wikipedia~~

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Systems Engineering
(Distance Learning)

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Systems overview This course will equip you with the skills and knowledge that allows you pursue a successful career in the electrical power systems industry. Core units provide a solid grounding in...

~~Electric Power
Engineering
Postgraduate Degree (27
courses)~~

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The programme develops through the year from advanced fundamental topics and research tools and techniques in electrical power engineering, to specialist courses on emerging technologies and advanced numerical methods for power engineering problems, and culminates in the summer dissertation

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project where the acquired skills in various areas are put into practice in application to an actual power engineering problem.

~~Electrical Power
Engineering MSc | The
University of Edinburgh~~
Power system
engineering is about
keeping things in
balance. Not just the

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balance between
generation and load or
between production and
consumption of reactive
power.

~~Electrical Power
Systems Engineering
The University of ...~~
Brief Information about
Power System
Engineering Power
System Engineering is
among the most well-

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Systems works of the two famous authors, d kothari and i nagrath, and is a popular book among the target audience. This volume is a revised version with a few added topics.

~~[PDF] Power System
Engineering by D
Kothari and I J ...~~

The operation of large-scale power systems

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requires more than simply technical knowledge and an understanding of electrical engineering. Though you may not expect to use economics as an engineer, market analysis is important for determining the financial component of running these systems.

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A clear explanation of the technology for producing and delivering electricity

Electric Power Systems explains and illustrates how the electric grid works in a clear, straightforward style that makes highly technical material accessible. It begins with a thorough discussion of the underlying physical

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concepts of electricity, circuits, and complex power that serves as a foundation for more advanced material.

Readers are then introduced to the main components of electric power systems, including generators, motors and other appliances, and transmission and distribution equipment

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Systems such as power lines, transformers, and circuit breakers. The author explains how a whole power system is managed and coordinated, analyzed mathematically, and kept stable and reliable. Recognizing the economic and environmental implications of electric energy production and

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public concern over disruptions of service, this book exposes the challenges of producing and delivering electricity to help inform public policy decisions. Its discussions of complex concepts such as reactive power balance, load flow, and stability analysis, for example, offer deep insight into the complexity of

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electric grid operation and demonstrate how and why physics constrains economics and politics. Although this survival guide includes mathematical equations and formulas, it discusses their meaning in plain English and does not assume any prior familiarity with particular notations or

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technical jargon.

Additional features include: * A glossary of symbols, units, abbreviations, and acronyms * Illustrations that help readers visualize processes and better understand complex concepts * Detailed analysis of a case study, including a Web reference to the case, enabling readers to

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test the consequences of
manipulating various
parameters With its
clear discussion of how
electric grids work,
Electric Power Systems
is appropriate for a
broad readership of
professionals,
undergraduate and
graduate students,
government agency
managers,
environmental

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This comprehensive textbook introduces electrical engineers to the most relevant concepts and techniques in electric power systems engineering today. With an emphasis on practical motivations for choosing the best design and

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Systems approaches, the author carefully integrates theory and application. Key features include more than 500 illustrations and diagrams, clearly developed procedures and application examples, important mathematical details, coverage of both alternating and direct current, an

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additional set of solved problems at the end of each chapter, and an historical overview of the development of electric power systems. This book will be useful to both power engineering students and professional power engineers.

This edition provides a systematic presentation

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of the main concepts referring to the electrical systems planning and operation, with the particularly interesting inclusion of many practical data, frequent reference to the IEC standards, and a detached view on the main approaches used in practice. The selection of the material makes it possible for the

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operator to retrieve in the book both concepts and indications on the applications, without needing to take a look at many manufacturer's data or huge handbooks. Describing in detail how electrical power systems are planned and designed, this book illustrates the required structures of systems, substations and

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Systems using
equipment using
international standards
and latest computer
methods. This book
discusses both the
advantages and
disadvantages of the
different arrangements
within switchyards and
of the topologies of the
power systems,
describing methods to
determine the main
design parameters of

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cables, overhead lines, and transformers needed to realize the supply task, as well as the influence of environmental conditions on the design and the permissible loading of the equipment.

Additionally, general requirements for protection schemes and the main schemes

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related to the various protection tasks are given.

The definitive textbook for Power Systems students, providing a grounding in essential power system theory while also focusing on practical power engineering applications. Electric Power Systems has been

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an essential book in power systems engineering for over thirty years. Bringing the content firmly up-to-date whilst still retaining the flavour of Weedy's extremely popular original, this Fifth Edition has been revised by experts Nick Jenkins, Janaka Ekanayake and Goran Strbac. This wide-ranging text still

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covers all of the fundamental power systems subjects but is now expanded to cover increasingly important topics like climate change and renewable power generation.

Updated material includes an analysis of today's markets and an examination of the current economic state of power generation.

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The physical limits of power systems equipment - currently being tested by the huge demand for power - is explored, and greater attention is paid to power electronics, voltage source and power system components, amongst a host of other updates and revisions. Supplies an updated chapter on

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power system economics and management issues and extended coverage of power system components. Also expanded information on power electronics and voltage source, including VSC HVDC and FACTS. Updated to take into account the challenges posed by different world markets, and pays greater

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attention to up-to-date renewable power generation methods such as wind power. Includes modernized presentation and greater use of examples to appeal to today's students, also retains the end of chapter questions to assist with the learning process. Also shows students how to apply calculation

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This book serves as a tool for any engineer who wants to learn about circuits, electrical machines and drives, power electronics, and power systems basics. From time to time, engineers find they need to brush up on certain fundamentals within electrical engineering.

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This clear and concise book is the ideal learning tool for them to quickly learn the basics or develop an understanding of newer topics. Fundamentals of Electric Power Engineering: From Electromagnetics to Power Systems helps nonelectrical engineers amass power system information

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quickly by imparting tools and tradetricks for remembering basic concepts and grasping newdevelopments.

Created to provide more in-depth knowledge offundamentals—rather than a broad range of applicationonly—this comprehensive and up-to-date book: Covers topics such as circuits,

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Systems machines and drives, power electronics, and power system basics as well as new generation technologies Allows nonelectrical engineers to build their electrical knowledge quickly Includes exercises with worked solutions to assist readers in grasping concepts found in the book Contains “ in-

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depth” side bars
throughout which pique
the reader ’ s curiosity
Fundamentals of
Electric Power
Engineering is an
ideal refresher course for
those involved in this
interdisciplinary branch.
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« This book gives nonelectrical professionals a fundamental understanding of large interconnected electrical power systems, better known as the « power grid, » with regard of terminology, electrical concepts, design considerations,

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construction practices,
industry standards,
control room operations
for both normal and
emergency conditions,
maintenance,
consumption,
telecommunications and
safety. The text begins
with an overview of the
terminology and basic
electrical concepts
commonly used in the
industry then it

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examines the generation, transmission and distribution of power. Other topics discussed include energy management, conservation of electrical energy, consumption characteristics and regulatory aspects to help readers understand modern electric power systems. This second

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edition features : new sections on renewable energy, regulatory changes, new measures to improve system reliability, and smart technologies used in the power grid system; updated practical examples, photographs, drawing, and illustrations to help the reader gain a better understanding of the

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Systems;
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material; optional
supplementary reading
sections within most
chapters to elaborate on
certain concepts by
providing additional
detail or background.

» --

Maintaining the reliable
and efficient generation,
transmission and
distribution of electrical
power is of the utmost

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importance in a world where electricity is the inevitable means of energy acquisition, transportation, and utilization, and the principle mode of communicating media. Our modern society is entirely dependent on electricity, so problems involving the continuous delivery of power can lead to the disruption

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Systems Engineering
and breakdown of vital economic and social infrastructures. This book brings together comprehensive technical information on power system engineering, covering the fundamental theory of power systems and their components, and the related analytical approaches. Key features: Presents

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detailed theoretical explanations of simple power systems as an accessible basis for understanding the larger, more complex power systems.

Examines widely the theory, practices and implementation of several power sub-systems such as generating plants, overhead transmission lines

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and power cable lines, sub-stations, including over-voltage protection, insulation coordination as well as power systems control and protection.

Discusses steady-state and transient phenomena from basic power-frequency range to lightning- and switching-surge ranges, including system faults, wave-form distortion

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and lower-order
harmonic resonance.
Explains the dynamics
of generators and power
systems through
essential mathematical
equations, with many
numerical examples.
Analyses the historical
progression of power
system engineering, in
particular the
descriptive methods of
electrical circuits for

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power systems. Written by an author with a wealth of experience in the field, both in industry and academia, the Handbook of Power System Engineering provides a single reference work for practicing engineers, researchers and those working in industry that want to gain knowledge of all aspects of power

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systems. It is also valuable for advanced students taking courses or modules in power system engineering.

Adapted from an updated version of the author's classic Electric Power System Design and Analysis, with new material designed for the undergraduate student and

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professionals new to
Power Engineering. The
growing importance of
renewable energy
sources, control
methods and
mechanisms, and system
restoration has created a
need for a concise,
comprehensive text that
covers the concepts
associated with electric
power and energy
systems. Introduction to

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Electric Power Systems
fills that need, providing
an up-to-date
introduction to this
dynamic field. The
author begins with a
discussion of the
modern electric power
system, centering on the
technical aspects of
power generation,
transmission,
distribution, and
utilization. After

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Systems
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providing an overview
of electric power and
machine theory

fundamentals, he offers
a practical treatment-
focused on applications-
of the major topics
required for a solid
background in the field,
including synchronous
machines, transformers,
and electric motors. He
also furnishes a unique
look at activities related

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Systems, such as power flow and control, stability, state estimation, and security assessment. A discussion of present and future directions of the electrical energy field rounds out the text.

With its broad, up-to-date coverage, emphasis on applications, and integrated MATLAB scripts, Introduction to

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Electric Power Systems provides an ideal, practical introduction to the field-perfect for self-study or short-course work for professionals in related disciplines.

Improve Compensation Strategies for Package Shortcomings In today's deregulated environment, the nation's electric power

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network is forced to operate in a manner for which it was not designed. As a result, precision system analysis is essential to predict and continually update network operating status, estimate current power flows and bus voltages, determine stability limits, and minimize costs.

Computational Methods

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Systems is an introductory overview of computational methods used for analytical studies in power systems and other engineering and scientific fields. As power systems increasingly operate under stressed conditions, techniques such as computer simulation remain

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Systems to control and security assessment.

This volume analyzes the algorithms used in commercial analysis packages and presents salient examples of their implementation that are simple and thorough enough to be reproduced easily. Most of the examples were produced using MATLAB® language.

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Presents General
Theory Applicable to
Different Systems

Commercial packages routinely fail or give erroneous results when used to simulate stressed systems, and understanding their underlying numerical algorithms is imperative to correctly interpret their results. This edition paints a broad

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picture of the methods used in such packages but omits extraneous detail. It includes new chapters that address function approximation and finite element analysis, in addition to new sections on:

Generalized Minimal Residual (GMRES) methods Numerical differentiation Secant method Homotopy and

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Systems methods

Power method for
computing dominant
eigenvalues Singular-
value decomposition
and pseudoinverses

Matrix pencil method

This book will enable
users to make better
choices and improve
their grasp of the
situations in which
methods may
fail—instilling greater

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confidence in the use of
commercial packages.

Covering the gamut of technologies and systems used in the generation of electrical power, this reference provides an easy-to-understand overview of the production, distribution, control, conversion, and measurement of

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electrical power. The content is presented in an easy to understand style, so that readers can develop a basic comprehensive understanding of the many parts of complex electrical power systems. The authors describe a broad array of essential characteristics of electrical power systems from power production

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to its conversion to another form of energy. Each system is broken down into sub systems and equipment that are further explored in the chapters of each unit. Simple mathematical presentations are used with practical applications to provide an easier understanding of basic power system operation. Many

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illustrations are included to facilitate understanding. This new third edition has been edited throughout to assure its content and illustration clarity, and a new chapter covering control devises for power control has been added.

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