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Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an

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introduction to electrical engineering. Students entering today's engineering fields will find an increased emphasis on practical analysis, design, and control. They must be able to translate their advanced programming abilities and sound theoretical backgrounds into superior problem-solving skills.

Electromechanical Systems and Devices facilitates the creation of critical problem-

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

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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 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

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environmental
implications of electric
energy production and
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
electric grid operation

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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 technical jargon. Additional features include: * A glossary of symbols, units, abbreviations, and acronyms * Illustrations that help readers

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visualize processes and
better understand
complex concepts *

Detailed analysis of a
case study, including a
Web reference to the
case, enabling readers
to 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

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managers, environmental advocates, and consumers.

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is

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assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

EDA for IC

Implementation, Circuit Design, and Process Technology

Fundamentals,

Applications and Technology

Switched-currents

Fundamentals of

Electrical Engineering

Handbook of Polymer

Coatings for Electronics

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CD-ROMs contains: 2 CDs,
"one contains the Student
Edition of LabView 7 Express,
and the other contains
OrCAD Lite 9.2."

Comprehensive engineering
science coverage that is fully
in line with the latest
vocational course
requirements New chapters
on heat transfer and fluid
mechanics Topic-based
approach ensures that this
text is suitable for all
vocational engineering
courses Coverage of all the
mechanical, electrical and
electronic principles within
one volume provides a

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comprehensive exploration of scientific principles within engineering Engineering Science is a comprehensive textbook suitable for all vocational and pre-degree courses. Taking a subject-led approach, the essential scientific principles engineering students need for their studies are topic-by-topic based in presentation. Unlike most of the textbooks available for this subject, Bill Bolton goes beyond the core science to include the mechanical, electrical and electronic principles needed in the majority of courses. A

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concise and accessible text is supported by numerous worked examples and problems, with a complete answer section at the back of the book. Now in its sixth edition, the text has been fully updated in line with the current BTEC National syllabus and will also prove an essential reference for students embarking on Higher National engineering qualifications and Foundation Degrees. Presenting a comprehensive overview of the design automation algorithms, tools, and methodologies used to

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design integrated circuits, the Electronic Design Automation for Integrated Circuits Handbook is available in two volumes. The second volume, EDA for IC Implementation, Circuit Design, and Process Technology, thoroughly examines real-time logic to GDSII (a file format used to transfer data of semiconductor physical layout), analog/mixed signal design, physical verification, and technology CAD (TCAD). Chapters contributed by leading experts authoritatively discuss

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design for manufacturability at the nanoscale, power supply network design and analysis, design modeling, and much more. Save on the complete set.

This is a reference source for practising engineers specializing in electric power engineering and industrial electronics. It begins with the basic dynamic models of induction motors and progresses to low- and high-performance drive systems. Engineering Mathematics Through Applications
Introduction to Airborne Radar

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Electronic Control Systems in
Mechanical Engineering
Electrical Systems in
Buildings

Hughes Electrical Technology

**Electrical Circuit Theory and
Technology is a fully
comprehensive text for courses in
electrical and electronic principles,
circuit theory and electrical
technology. The coverage takes
students from the fundamentals of
the subject, to the completion of a
first year degree level course. Thus,
this book is ideal for students
studying engineering for the first
time, and is also suitable for pre-
degree vocational courses,
especially where progression to
higher levels of study is likely. John
Bird's approach, based on 700**

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worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and 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 carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>.

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Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

The success, growth, and virtually limitless applications of nanotechnology depend upon our ability to manipulate nanoscale objects, which in turn depends upon developing new insights into the interactions of electric fields, nanoparticles, and the molecules that surround them. In the first book to unite and directly address particle electrokinetics and nanotechnology, Nanoelectromechanics in Engineering and Biology provides a thorough grounding in the phenomena associated with

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nanoscale particle manipulation. The author delivers a wealth of application and background knowledge, from using electric fields for particle sorting in lab-on-a-chip devices to electrode fabrication, electric field simulation, and computer analysis. It also explores how electromechanics can be applied to sorting DNA molecules, examining viruses, constructing electronic devices with carbon nanotubes, and actuating nanoscale electric motors. The field of nanotechnology is inherently multidisciplinary-in its principles, in its techniques, and in its applications-and meeting its current and future challenges will require the kind of approach reflected in this book. Unmatched

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in its scope, Nanoelectromechanics in Engineering and Biology offers an outstanding opportunity for people in all areas of research and technology to explore the use and precise manipulation of nanoscale structures.

Covering the fundamentals of electrical technology and uses these to introduce the application of electrical and electronic systems, this text had been updated to include recent developments in technology. It avoids unnecessary mathematics and features improved teaching aids, including: worked examples; updated and graded review questions; colour diagrams and chapter summaries. It is designed for use by students on NC, HNC and HND courses in electrical and

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One of the most comprehensive, clearly written books on electronic technology, Simpon's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of

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coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for electronic engineering technicians and those involved in the electronic technology field.

**Chemistry, Technology and
Applications**

**Basic Electrical Engineering
Concepts and Experimentation**

Electrical Technology, Vol1:

Electrical Fundamentals

Principles and Applications

Hughes Electrical & Electronic

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Technology Hughes Electrical and Electronic Technology Prentice Hall
Brushless permanent-magnet motors provide simple, low maintenance, and easily controlled mechanical power. Written by two leading experts on the subject, this book offers the most comprehensive guide to the design and performance of brushless permanent-magnetic motors ever written. Topics range from electrical and magnetic design to materials and control. Throughout, the authors stress both practical and theoretical aspects of the subject, and relate the material to modern software-based techniques for design and analysis. As new magnetic materials and digital

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power control techniques continue to widen the scope of the applicability of such motors, the need for an authoritative overview of the subject becomes ever more urgent. Design of Brushless Permanent-Magnet Motors fits the bill and will be read by students and researchers in electric and electronic engineering.

"The integration of electronic engineering, electrical engineering, computer technology and control engineering with mechanical engineering -- mechatronics -- now forms a crucial part in the design, manufacture and maintenance of a wide range of engineering products and processes. This book provides a clear and comprehensive

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introduction to the application of electronic control systems in mechanical and electrical engineering. It gives a framework of knowledge that allows engineers and technicians to develop an interdisciplinary understanding and integrated approach to engineering. This second edition has been updated and expanded to provide greater depth of coverage." -- Back cover.

High voltage, Electrical
engineering, Electronic
engineering, Electrical testing,
Building and Construction
Components and Techniques
Hughes Electrical and Electronic
Technology
Electric Power Systems

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Design of Brushless Permanent-
magnet Motors

Electrical Engineering

*Written for non-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 popular as an outline for professionals and an introductory student text. * First edition (1990) has sold over 6000 copies.*

Drives and Controls on the

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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 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 power switching devices. * New 'question and answer'*

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*sections on common problems and misconceptions. * Updating throughout. Electric Motors and Drives is for non-specialist users of electric motors and drives. It fills the gap between specialist textbooks (which are pitched at a level which 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*

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types of motor and drive, including conventional and brushless d.c., induction motors (mains and inverter-fed), stepping motors, synchronous motors (mains and converter-fed) and reluctance motors.

"How much do you need to know about electronics to create something interesting, or creatively modify something that already exists? If you're in a technical field such as software development, and don't have much experience with electronics components, this hands-on

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reference helps you find answers to technical questions quickly. Filling the gap between a beginner's primer and a formal textbook, Practical Electronics: Components and Techniques explores aspects of electronic components and techniques that you would typically learn on the job and from years of experience. Even if you've worked with electronics, or have a background in electronics theory, you're bound to find important information that you may not have

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encountered before. Among the book's many topics, you'll discover how to: Read the data sheet for an electronic component ; Use a variety of tools involved with electronics work ; Assemble various types of connectors ; Minimize noise and interference on a signal interface circuit. Explore topics not usually covered in theoretical books, and go deeper into practical aspects than a step-by-step, project-oriented approach, with Practical Electronics: Components and Techniques." --

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Electrical Technology will serve the needs of undergraduate students of engineering. This first volume consists of 30 chapters and introduces the fundamentals of the subject through a discussion on system of units and fundamentals of electrons and gradually moves to advanced topics such as Complex Algebra, Fourier Series, Circuits and Networks, which helps engineering students understand the subject better and build a concrete foundation of their concepts.

Effective Technical Communication is designed to serve as a practical guide and useful resource for scientists, engineers, and researchers. It addresses the need of practitioners engaged in the exchange of technical information to effectively share their ideas with, and make impact on, their peers. The book provides guidelines, technical conventions, and graphical and visual aids for communicating effectively. It discusses the use of scientific vocabulary and various forms of writing,

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starting from simple forms such as paragraph and precis writing to more advanced forms such as scientific and engineering reports and papers. Written in an easy-to-understand style, the text is supported with numerous illustrative examples. The correct use of language, the dos and don'ts of communication and the effective use of speech communication have also been discussed in detail.

*The Development Of Large Technical Systems
Mechatronics
Fundamentals, Types and*

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Nanoelectromechanics in Engineering and Biology A Textbook of Electrical Technology - Volume II

The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject, and the author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) into the learning process. Electrical Principles and Technology for Engineering is John Bird's core text for Further Education courses at BTEC levels N11 and N111

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and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology.

Various factors affect the performance of electrical contacts, including tribological, mechanical, electrical, and materials aspects. Although these behaviors have been studied for many years, they are not widely used or understood in practice. Combining approaches used across the globe, *Electrical Contacts: Fundamentals, Applications, and Technology* integrates advances in research and development in the tribological,

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material, and analytical aspects of electrical contacts with new data on electrical current transfer at the micro- and nanoscales. Taking an application-oriented approach, the authors illustrate how material characteristics, tribological behavior, and loading impact the degradation of contacts, formation of intermetallics, and overall reliability and performance. Coverage is divided broadly into three sections, with the first focused on mechanics, tribology, materials, current and heat transfer, and basic reliability issues of electrical contacts. The next section explores applications, such as power connections, electronic connections, and sliding contacts, while the final section presents the diagnostic and monitoring techniques used to

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investigate and measure phenomena occurring at electrical contact interfaces. Numerous references to current literature reflect the fact that this book is the most comprehensive survey in the field. Explore an impressive collection of data, theory, and practical applications in *Electrical Contacts: Fundamentals, Applications, and Technology*, a critical tool for anyone investigating or designing electrical equipment with improved performance and reliability in mind. This book deals with recent developments and applications of environmental monitoring technologies, with emphasis on rapidly progressing optical and biological methods. Written by worldwide experts, this book will be of interest to

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environmental scientists in academia, research institutes, industry and the government.

A multicolor edition of Vol.II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of essential and modern technical information, the syllabi are frequently revised. This often results in compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and industrial power-conditioners have grown considerably resulting in changed priority of topics related to electrical machines. Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness, better performance

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including controllability and equal ease with which they suit rotary as well as linear-motion-applications.

Principles of Electronics

Electrical Technology (in M.K.S.), 7e

Effective Technical Communication

Practical Electronics

Basic Electrical and Electronics

Engineering:

A comprehensive introduction to electrical and electronic engineering. This revised and updated edition (sixth was 1987) finds the text divided into four parts, covering electrical principles, electronic engineering, power engineering, and measurements. This edition

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also incorporates two-color illustrations, and puts a greater emphasis on electrical systems and less on circuit analysis. Includes numerous worked examples and end-of-chapter exercises. Annotation copyright by Book News, Inc., Portland, OR

In this textbook, the fundamental principles of electrical technology are clearly and simply outlined and then used to introduce the application of electrical and electronic systems. Power systems are also discussed fully. This tenth edition has been updated in light of

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advances in the field.

This completely revised edition remains the only comprehensive treatise on polymer coatings for electronics. Since the original edition, the applications of coatings for the environmental protection of electronic systems have greatly increased, largely driven by the competitive need to reduce costs, weight and volume. The demands for high-speed circuits for the rapid processing of signals and data, high-density circuits for the storage and retrieval of megabits of memory, and the

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improved reliability required of electronics for guiding and controlling weapons and space vehicles have triggered the development of many new and improved coating polymers and formulations. Both the theoretical aspects of coatings (molecular structure of polymer types and their correlation with electrical and physical properties) and applied aspects (functions, deposition processes, applications, testing) are covered in the book. Over 100 proprietary coating formulations were reviewed, their properties collated, and

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tables of comparative properties prepared. This book is useful as both a primer and as a handbook for collecting properties data.

This book is an outcome of the conference on the development of large technical systems held in Berlin in 1986. It focuses on the comparative analysis of the development of large technical systems, particularly electrical power, railroad, air traffic, telephone, and other forms of telecommunication.

A Conceptual Introduction
Hughes Electrical & Electronic
Technology

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Electrical Principles and
Technology for Engineering
Control of Induction Motors
Advanced Electrical
Technology

Analogue designers from industry and academia worldwide have contributed to this first volume devoted entirely to switched-current analogue signal processing. The volume introduces the basic switched-current technique, reviews the state-of-the-art, and presents practical chip examples. Numerous

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application areas are described, ranging from filters and data converters to image processing applications. It also gives a comprehensive treatment of the fundamental principles of switched-current circuits and systems. For undergraduate and graduate students and practicing engineers in industry. Distributed by INSPEC. Annotation copyright by Book News, Inc., Portland, OR
This popular, world-wide

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selling textbook teaches engineering mathematics in a step-by-step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction. This contextual use of mathematics is highly motivating, as with every topic and each new page students see the importance and relevance of mathematics in engineering. The examples are taken from mechanics, aerodynamics,

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**electronics,
engineering, fluid
dynamics and other
areas. While being
general and accessible
for all students, they
also highlight how
mathematics works in any
individual's engineering
discipline. The material
is often praised for its
careful pace, and the
author pauses to ask
questions to keep
students reflecting.
Proof of mathematical
results is kept to a
minimum. Instead the
book develops learning**

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by investigating results, observing patterns, visualizing graphs and answering questions using technology. This textbook is ideal for first year undergraduates and those on pre-degree courses in Engineering (all disciplines) and Science. New to this Edition: - Fully revised and improved on the basis of student feedback - New sections - More examples, more exam questions -

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Vignettes and photos of key mathematicians
An introduction to the subject for non-specialists: engineers, technicians, pilots, and aerospace industry marketing, public relations, and customer support personnel. Also a reference for specialists in the field. The completely rewritten and revised Second Edition updates the original published by the Hughes Aircraft Company.
FE Electrical and

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Computer Practice Problems contains over 450 multiple-choice problems that will reinforce your knowledge of the topics covered on the NCEES Electrical and Computer FE exam. These problems are designed to be solved in three minutes or less to demonstrate the format and difficulty of the exam, and to help you focus on individual engineering concepts.

Fundamental DC/AC Circuits

Engineering Science, 6th

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ed

**Electromechanical
Systems and Devices
A Guide for Scientists
and Engineers
Electric Motors and
Drives**

*Basic Electrical and
Electronics Engineering
provides an overview of
the basics of electrical
and electronic engineering
that are required at the
undergraduate level. The
book allows students
outside electrical and
electronics engineering to
easily*

*Electrical and Electronic
Principles and Technology*

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*Electrical Circuit Theory
and Technology*

*An Analogue Technique for
Digital Technology*

*High Voltage Engineering
and Testing*

Energy Management