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**Practical  
 Electrical  
 Engineering**

Springer  
 "This is a  
 signals and

systems  
 textbook with  
 a difference:  
 Engineering  
 applications of  
 signals and  
 systems are  
 integrated  
 into the  
 presentation  
 as equal

partners with  
 concepts and  
 mathematical  
 models,  
 instead of just  
 presenting the  
 concepts and  
 models and  
 leaving the  
 student to  
 wonder how it

all relates to engineering."-  
 -Preface.  
*Standard Handbook for Electrical Engineers Sixteenth Edition*  
 BecomeShake  
 speare.com  
 Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples.

Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their

electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: -

<p>Microcontrollers - FPGAs - Classes of components - Memory (RAM, ROM, etc.) - Surface mount - High speed design - Board layout - Advanced digital electronics (e.g. processors) - Transistor circuits and circuit design - Op-amp and logic circuits - Use of test equipment - Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life.</p>	<p>- Updated content throughout and new material on the latest technological advances. - Provides readers with an invaluable set of tools and references that they can use in their everyday work. <u>Basic Electrical Engineering</u> Walter de Gruyter GmbH &amp; Co KG THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century, the</p>	<p>Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers. It offers comprehensive information on the generation, transmission, distribution, control, operation, and application of electric power. Completely revised throughout to address the latest codes</p>
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and standards, the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids, smart meters, renewable energy, and cogeneration plants. Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed. Featuring hundreds of detailed illustrations

and contributions from more than 75 global experts, this state-of-the-art volume is an essential tool for every electrical engineer. Standard Handbook for Electrical Engineers, 16th Edition, covers: Units, symbols, constants, definitions, and conversion factors \* Electric and magnetic circuits \* Measurements and instruments \* Properties of materials \* Generation \*

Prime movers  
 \* Alternating-current generators \*  
 Direct-current generators \*  
 Hydroelectric power generation \*  
 Power system components \*  
 Alternate sources of power \*  
 Electric power system economics \*  
 Project economics \*  
 Transmission systems \*  
 High-voltage direct-current power transmission \*  
 Power system operations \*  
 Substations \*  
 Power distribution \*  
 Wiring design for

commercial and industrial buildings *	<i>n Systems for Electrical Engineers</i>	read on the subject.
Motors and drives *	Springer Science & Business Media	Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.
Industrial and commercial applications of electric power *	For close to 30 years, □Basic Electrical Engineering□ has been the go-to text for students of Electrical Engineering.	
* Power electronics *	Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental	<u>Handbook of Electrical Engineering</u> Michigan Publishing Services Unlike books
Power quality and reliability *		
* Grounding systems *		
Computer applications in the electric power industry *		
Illumination *		
Lightning and overvoltage protection *		
Standards in electrotechnology, telecommunications, and information technology		
<i>Communicatio</i>		

currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using

the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical

systems.+Balances circuits theory with practical digital electronics applications.+ Illustrates concepts with real devices.+Supports the popular circuits and electronics course on the MIT OpenCourseWare from which professionals worldwide study this new approach.+Written by two educators well known for their innovative teaching and research and their

collaboration with industry. + Focuses on contemporary MOS technology.

**Electromagnetics** McGraw Hill Professional "Probability is one of the most interesting subjects in electrical engineering and computer science. It bridges our favorite engineering principles to the practical reality, a world that is full of uncertainty. However, because probability is

such a mature subject, the undergraduate textbooks alone might fill several rows of shelves in a library. When the literature is so rich, the challenge becomes how one can pierce through to the insight while diving into the details. For example, many of you have used a normal random variable before, but have you ever wondered where the 'bell shape' comes from? Every probability

class will teach you about flipping a coin, but how can 'flipping a coin' ever be useful in machine learning today? Data scientists use the Poisson random variables to model the internet traffic, but where does the gorgeous Poisson equation come from? This book is designed to fill these gaps with knowledge that is essential to all data science students." --



Preface.  
Fundamentals  
of Electrical  
Engineering  
 Elsevier  
 SOME UNIQUE  
 FEATURES  
 Special thrust  
 on energy  
 conservation,  
 pollution  
 control and  
 space saving  
 in consonance  
 with the latest  
 global  
 requirements  
 • Special  
 Coverage on  
 earthquake  
 engineering  
 and tsunami  
 Seismic  
 testing of  
 critical  
 machines . In  
 all there are  
 32 Chapters  
 and 2  
 Appendices.  
 Each chapter  
 is very

interesting  
 and full of rare  
 Information .  
 The book  
 contains 5  
 parts and  
 each part is a  
 mini-  
 encyclopedia  
 on the  
 subjects  
 covered •  
 Many topics  
 are research  
 work of the  
 author and  
 may have rare  
 information  
 not available  
 in most works  
 available in  
 the market.  
 Tables of all  
 relevant and  
 equivalent  
 Standards IEC,  
 BS, ANSI,  
 NEMA, IEEE  
 and IS at the  
 end of each  
 chapter is a  
 rare feature

APPLICATIONS  
 OF THE  
 HANDBOOK  
 For  
 professionals  
 and practising  
 engineers: As  
 a reference  
 handbook for  
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 and practising  
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 with design,  
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 Project  
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 and project  
 Implementatio  
 n A very  
 useful book  
 for every  
 industry for  
 selection,  
 Installation

and maintenance of electrical machines. . For practising engineers. It would be like keeping a gospel by their sides. For Inhouse training programmes: . Unique handbook for inhouse training courses for Industries, power generating, transmission and distribution organizations For students and research scholars : As a reference textbook for all electrical engineering

students in the classrooms and during practical training. It can bridge the gap between the theory of the classroom and the practice in the field. A highly recommended book for all engineering colleges worldwide, right from 1st year through final year. It will prove to be a good guide during higher studies and research activities Subjects like Earthquake Engineering, Intelligent Switchgears,

SCADA Power Systems, Surges. Temporary Over Voltage, Surge Protection, Reactive Power Control and Bus Systems etc. are some pertinent topics that can form the basis of their higher studies and research work . The book shall help in technological and product development and give a fresh Impetus to R&D. Introduction to Probability for Data Science Springer Nature

<p>A practical treatment of power system design within the oil, gas, petrochemical and offshore industries. These have significantly different characteristics to large-scale power generation and long distance public utility industries. Developed from a series of lectures on electrical power systems given to oil company staff and university students, Sheldrake's work provides a careful</p>	<p>balance between sufficient mathematical theory and comprehensive practical application knowledge. Features of the text include: Comprehensive handbook detailing the application of electrical engineering to the oil, gas and petrochemical industries Practical guidance to the electrical systems equipment used on off-shore production platforms, drilling rigs,</p>	<p>pipelines, refineries and chemical plants Summaries of the necessary theories behind the design together with practical guidance on selecting the correct electrical equipment and systems required Presents numerous 'rule of thumb' examples enabling quick and accurate estimates to be made Provides worked examples to demonstrate the topic with practical</p>
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<p>parameters and data Each chapter contains initial revision and reference sections prior to concentrating on the practical aspects of power engineering including the use of computer modelling Offers numerous references to other texts, published papers and international standards for guidance and as sources of further reading material Presents over</p>	<p>35 years of experience in one self-contained reference Comprehensive appendices include lists of abbreviations in common use, relevant international standards and conversion factors for units of measure An essential reference for electrical engineering designers, operations and maintenance engineers and technicians. <i>Electric Power Engineering</i> John Wiley &amp; Sons This Book</p>	<p>Presents A Practical-Oriented, Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis &amp; Network Theorems, Electromagnetism &amp; Magnetic Circuit, Alternating Current &amp; Voltages, Electrical Measurement &amp; Measuring Instrument And Electric Machines. Salient Features: # Clarification Of Basic Concepts#</p>
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Several Solved Examples With Detailed Explanation# At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems# Written In Very Simple Language And Suitable For Self-Study# Step-By-Step Procedures Given For Solving Numerical **Electrical Engineer's Pocket-book** CRC Press This book is also available through the Introductory Engineering Custom Publishing

System. If you are interested in creating a course-pack that includes chapters from this book, you can get further information by calling 212-850-6272 or sending email inquiries to [engineerjwiley.com](mailto:engineerjwiley.com). Designed to meet the problems facing today's engineers. Offers detailed discussions of all electrical engineering systems-- instrumentation, control, communications, computers and power.

Introduces a new concept by using a specific example and then proceeding to the generalization . Frequent usage of non-electrical analogies enhance comprehension. All chapters contain problems followed by study questions. New problems have been added, particularly easy drill puzzlers. **Electrical Engineering** Oxford Series in Electrical and Computer

Engineering  
This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the

practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide

range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

**Fundamental Research in Electrical Engineering**  
Red Globe Press  
A third edition of this popular text which provides a foundation in electronic and electrical engineering for HND and undergraduate students.

The book offers exceptional breadth of coverage without sacrificing depth. It uses a wealth of practical examples to illustrate the theory, and makes no excessive demands on the reader's mathematical skills. Ideal as a teaching tool or for self-study.

**Introduction to Electronic Engineering**

CRC Press  
This classic reference volume provides a wealth of essential

information for electrical engineers and technicians. Covering everything from circuit design to power generation, it is an indispensable tool for anyone working in the field of electrical engineering. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the

United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation

process, and thank you for being an important part of keeping this knowledge alive and relevant.

### **Advances in Electronics Engineering**

Bookboon

This book is the collection of the contributions offered at the International Symposium on Electromagnetic Fields in Electrical Engineering, ISEF '87, held in Pavia, Italy, in September 1987. The Symposium was attended by specialists engaged in both

theoretical and applied research in low-frequency electromagnetism. The charming atmosphere of Pavia and its ancient university provided a very effective environment to discuss the latest results in the field and, at the same time, to enjoy the company or colleagues and friends coming from over 15 countries. The contributions have been grouped into 7 chapters devoted to fundamental

problems, computer programs, transformers, rotating electrical machines, mechanical and thermal effects, various applications and synthesis, respectively. Such a classification is merely to help the reader because a few papers could be put in several chapters. Over the past two decades electromagnetic field computations have received a big impulse by the large



availability of digital computers with better and better performances in speed and capacity. Many various methods have been developed but not all of them appear convenient enough for practical engineering use. In fact, the technical and industrial challenges set some principal attributes and criteria for good computation methods. They should be relatively easy to use, fit into

moderately sized computers, yield useful design data, maintain flexibility with minimum cost in time and effort. **Electrical Engineering 101** Springer 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 introduction to electrical engineering.

### **Applied Electricity**

Elsevier This text provides coverage of computer simulation and introductory material on power calculations, as it treats power computations, rectifiers, dc-dc converters and dc power supplies, inverters, and resonant converters. *Foundations of*

*Analog and Digital Electronic Circuits S. Chand Publishing*  
The first edition of this title proved the most successful of the Portable Handbook series launched in 1999. Aimed at electrical engineers and technicians working in building power systems, the relentlessly practical Handbook succeeded as an in the field working tool. This new edition is necessitated by the new

2002 version of the National Electrical Code (NEC). This code changes render much of the existing material obsolete, so over half the chapters require heavy rewrites to stay current.  
**Proceedings of the 4th International Conference on Electrical Engineering and Control Applications**  
John Wiley & Sons  
Mathematics for Electrical Engineering and Computing embraces many

applications of modern mathematics, such as Boolean Algebra and Sets and Functions, and also teaches both discrete and continuous systems - particularly vital for Digital Signal Processing (DSP). In addition, as most modern engineers are required to study software, material suitable for Software Engineering - set theory, predicate and propositional calculus,

language and graph theory - is fully integrated into the book. Excessive technical detail and language are avoided, recognising that the real requirement for practising engineers is the need to understand the applications of mathematics in everyday engineering contexts. Emphasis is given to an appreciation of the fundamental concepts behind the mathematics, for problem

solving and undertaking critical analysis of results, whether using a calculator or a computer. The text is backed up by numerous exercises and worked examples throughout, firmly rooted in engineering practice, ensuring that all mathematical theory introduced is directly relevant to real-world engineering. The book includes introductions to advanced

topics such as Fourier analysis, vector calculus and random processes, also making this a suitable introductory text for second year undergraduates of electrical, electronic and computer engineering, undertaking engineering mathematics courses. Dr Attenborough is a former Senior Lecturer in the School of Electrical, Electronic and Information Engineering at South Bank

University. She is currently Technical Director of The Webberly - Internet development company, Co. Donegal, Ireland. - Fundamental principles of mathematics introduced and applied in engineering practice, reinforced through over 300 examples directly relevant to real-world engineering *Electrical Engineer's Portable Handbook* Springer Nature "Designed for a course on image processing (IP) aimed at both graduate students as well as undergraduates in their senior year, in any field of engineering, this book starts with an overview in Chapter 1 of how imaging sensors--from cameras to radars to MRIs and CAT--form images, and then proceeds to cover a wide array of image processing topics. The IP topics include: image interpolation, magnification, thumbnails, and sharpening, edge detection, noise filtering, de-blurring of blurred images, supervised and unsupervised learning, and image segmentation, among many others. As a prelude to the chapters focused on image processing (Chapters 3-12), the book offers in Chapter 2 a review of 1-D signals and systems, borrowed from our 2018 book *Signals and*

Systems: an excellent semiconductor  
Theory and introduction s, circuit  
Applications, into the areas diagrams,  
by Ulaby and of electricity, magnetic  
Yagle."-- electronic fields,  
Preface. devices and electrochemist  
The Circuits ry, and  
and Filters electrochemist devices such  
Handbook, ry. The book as DC motors.  
Third Edition covers This text is  
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Fundamentals laws, P-N materials, and  
of Electrical junctions, mechanical  
Engineering is engineering.