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# Electrical And Electronics Engineering Books

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Vasantha Books Publishers  
Springer Nature  
Real-world engineering  
problems are rarely, if ever,  
neatly divided into  
mechanical, electrical,

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chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and his

world-renowned colleague Thad Roppel, *Fundamentals of Electrical Engineering* provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and

easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material,

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resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The

result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy. Basic Electrical and Electronics Engineering S. Chand Electronics Engineer's Reference Book, Sixth Edition is a five-part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems. Part II covers physical phenomena, such as electricity, light, and radiation, often met with in electronic systems. Part III contains chapters on basic electronic components and materials, the building blocks

of any electronic design. Part IV highlights electronic circuit design and instrumentation. The last part shows the application areas of electronics such as radar and computers.

**Electrical Engineer's Reference Book** John Wiley & Sons  
**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

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electrical and  
electronics engineering  
to easily

Innovations in Electrical and  
Electronic Engineering Tata  
McGraw-Hill Education

This second edition,  
extensively revised and  
updated, continues to offer  
sound, practically-oriented,  
modularized coverage of the  
full spectrum of fundamental  
topics in each of the several  
major areas of electrical and  
electronics engineering. Circuit  
Theory Electrical  
Measurements and Measuring  
Instruments Electric Machines  
Electric Power Systems

Control Systems Signals and  
Systems Analog and Digital  
Electronics including  
introduction to microcomputers  
The book conforms to the  
syllabi of Basic Electrical and  
Electronic Sciences prescribed  
for the first-year engineering  
students. It is also an ideal text  
for students pursuing diploma  
programmes in Electrical  
Engineering. Written in a  
straightforward style with a  
strong emphasis on primary  
principles, the main objective  
of the book is to bring an  
understanding of the subject  
within the reach of all  
engineering students. What is

New to This Edition :  
Fundamentals of Control  
Systems (Chapter 24)  
Fundamentals of Signals and  
Systems (Chapter 25)  
Introduction to Microcomputers  
(Chapter 32) Substantial  
revisions to chapters on  
Transformer, Semiconductor  
Diodes and Transistors, and  
Field Effect Transistors Laplace  
Transform (Appendix B)  
Applications of Laplace  
Transform (Appendix C)  
PSpice (Appendix E) key  
Features : Numerous solved  
examples for sound conceptual  
understanding End-of-chapter  
review questions and numerical

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problems for rigorous practice by students. Answers to all end-of-chapter numerical problems. An objective type Questions Bank with answers to hone the technical skills of students for viva voce and preparation for competitive examinations.

**The Circuit Designer's Companion** Knowledge Flow

This reference book provides over 6,500 multiple choice and objective-type questions and answers for all types of electrical engineering topics. It covers basic electronics, electrical circuits, electromagnetic

theory, refrigeration, currents, power plants, batteries, electric devices, measurements, control systems, computer fundamentals, electronics, material science, machines, power systems, and more.

**BASIC ELECTRICAL AND ELECTRONICS ENGINEERING** RAJATH PUBLISHERS

This book presents selected papers from the 2021 International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2–3, 2021. The book focuses on the

current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices, circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry

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professionals alike.

**Engineering Basics:  
Electrical, Electronics and  
Computer Engineering**

Elsevier

Ugly's Electrical

References, 2020 Edition is the gold standard on-the-job reference tool of choice for electrical industry professionals. Offering the most pertinent, up-to-date information used by electricians, including: updated NEC code and table change information, mathematical formulas, NEMA wiring configurations, conduit bending guide,

ampacity and conduit fill information, transformer and control circuit wiring diagrams, and conversion tables. New Features of this Edition: • Updated to reflect changes to the 2020 National Electrical Code (NEC) • Expanded coverage of the following topics: o Junction Box size calculations o Selecting, testing, and using multimeters to measure voltage, resistance, and current o Selecting, testing, and using a clamp-on ammeter to measure current o Selecting, testing, and

using a non-contact voltage tester

*Occupational Outlook Handbook* Springer Science & Business Media

110 Waveform Generator Projects for the Home Constructor deals with waveform generator circuits that can produce forms of sine, square, triangle, sawtooth, ramp, pulse, or staircase. The generator circuits, built by the constructor using transistors, operational amplifiers or digital

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integrated circuits, can produce modulated or unmodulated outputs, with single or multiple form outputs. The constructor must follow two requirements in building a simple sine-wave oscillator: firstly, the output of an amplifying device must be fed back to its input via a frequency-selective network in such a way that the sum of the amplifier and feedback network phase-shifts equals zero (or 360) degrees at the desired

oscillation frequency. Secondly, the gain of the amplifying device must exactly counter the loss or attenuation of the frequency-selective feedback network at the desired oscillation frequency, to give an overall system gain of precise unity. The book also describes different waveform modulations, such as amplitude modulation (a.m.), frequency modulation (f.m.), frequency-shift keying (f.s.k.), phase-shift

keying (p.s.k.), sweep modulation, carrier keying, and how to apply these in practical circuits. Radio technicians, engineers, apprentices, hobbyists, and students of electrical engineering or electronics will find the book very useful.

Basic Electrical and Electronics Engineering  
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Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)Koros PressBasic Electrical and

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Electronics  
Engineering: Pearson  
Education India  
**The Circuits and Filters  
Handbook, Third Edition  
(Five Volume Slipcase Set)**  
Pearson Education India  
"The Wiley Electrical and  
Electronics Engineering  
Dictionary provides  
researchers, working  
engineers, students, and those  
in related disciplines with the  
definitions of all the terms and  
acronyms used in today's  
electrical and electronics  
literature. This comprehensive  
resource saves time by  
presenting the desired  
information in the place it is

first looked up - and in a  
straightforward manner that  
allows this content to be more  
readily assimilated." "Utilizing  
information drawn from  
textbooks, handbooks,  
treatises, instruction manuals,  
theses, articles, reports, and  
Usenet postings, the Wiley  
Electrical and Electronics  
Engineering Dictionary is the  
most complete dictionary  
covering the entire field of  
electrical and electronics  
engineering."--BOOK JACKET.  
*Electrical Engineering  
Fundamentals* IGI Global  
Electrical and electronics  
engineering entails the  
design, development and

implementation of electrical  
and electronic power  
systems. This may be as  
simple as designing a light  
bulb or as complex as the  
development of robotics  
for automating  
manufacturing. This  
Encyclopedia covers both  
the theory of electrical and  
electronics engineering as  
well as practical  
applications for industry.  
The annual update volume  
describes the latest  
developments in the field.  
**The Electronics  
Handbook** Wiley-IEEE



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Press

The book presents a detailed exposition of the basic facets of electrical and electronics engineering. It begins with a general introduction to the basic concepts in electrical engineering and goes on to explain electrostatic fields and batteries. The basic concepts and techniques in circuit analysis are explained next. This is followed by a detailed exposition of electric machines which includes

discussion of transformers and synchronous motors. Electrical measurements and instruments are explained next which is followed by an exposition of basic electronics. SI units are consistently used throughout the book. Solved examples, practice problems and objectives questions are presented in each chapter.  
[Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide \(6 Volumes Set\)](#) Elsevier  
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,

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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: 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. 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.

### **Ugly's Electrical References, 2020**

**Edition** Pearson Education India

An introductory text, Electricity and Electronics Fundamentals, delineates key concepts in electricity using a simplified approach that enhances learning. Mathematical calculations are kept to the very minimum and concepts are demonstrated through

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application examples and illustrations. The books span of topics includes vital information on direct current electronics, alternating current electricity and semiconductor devices as well as electronic circuits, digital electronics, computers and microprocessors, electronic communications, and electronic power control. Supplementary appendices provide a glossary and section on

electrical safety along with an explanation of soldering techniques. **Everything You Should Have Learned in School...but Probably Didn't** CRC Press Designed For Entry-Level Engineering Students, This Book Presents A Thorough Exposition Of Electrical, Electronics, Computer And Communication Engineering. Simple Language Has Been Used Throughout The Book And The Fundamental

Concepts Have Been Systematically Highlighted \* This Edition Includes New Chapters On \* Transmission And Distribution \* Communication Services \* Linear And Digital Integrated Circuits \* Sequential Logic System \* The Book Also Includes \* Large Number Of Diagrams For A Clear Understanding Of The Subject \* Cumerous Solved Examples Illustrating Basic Concepts And Techniques \*

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Exercises And Review Questions With Answers \* Revision Formulae For Quick Review And Recall All These Features Make This Book An Ideal Text For Both Degree And Diploma Students Engineering.

*Electrical Engineering 101*

Wiley-Interscience

For ease of use, this edition has been divided into the following subject sections: general principles; materials and processes; control, power electronics and drives; environment; power generation; transmission and

distribution; power systems; sectors of electricity use. New chapters and major revisions include: industrial instrumentation; digital control systems; programmable controllers; electronic power conversion; environmental control; hazardous area technology; electromagnetic compatibility; alternative energy sources; alternating current generators; electromagnetic transients; power system planning; reactive power plant and FACTS controllers; electricity economics and trading; power quality. \*An essential source of techniques, data and principles for all practising electrical

engineers \*Written by an international team of experts from engineering companies and universities \*Includes a major new section on control systems, PLCs and microprocessors Electrical Engineering Handbook New Age International Standard-setting, groundbreaking, authoritative, comprehensive—these often overused words perfectly describe The Circuits and Filters Handbook, Third Edition. This standard-setting resource has documented the

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momentous changes that have occurred in the field of electrical engineering, providing the most comprehensive coverage available. More than 150 contributing experts offer in-depth insights and enlightened perspectives into standard practices and effective techniques that will make this set the first—and most likely the only—tool you select to help you with problem solving. In its third edition, this groundbreaking bestseller surveys accomplishments in the field, providing researchers and designers with the comprehensive detail they need to optimize research and design. All five volumes include valuable information on the emerging fields of circuits and filters, both analog and digital. Coverage includes key mathematical formulas, concepts, definitions, and derivatives that must be mastered to perform cutting-edge research and design. The handbook avoids extensively detailed theory and instead concentrates on professional applications, with numerous examples provided throughout. The set includes more than 2500 illustrations and hundreds of references. Available as a comprehensive five-volume set, each of the subject-specific volumes can also be purchased separately.

[Fundamentals of Electrical Engineering](#) PHI Learning Pvt. Ltd.

The bestselling beginner Arduino guide, updated with new projects! Exploring Arduino makes electrical engineering and embedded software accessible. Learn step by step everything you need to know about

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electrical engineering, programming, and human-computer interaction through a series of increasingly complex projects. Arduino guru Jeremy Blum walks you through each build, providing code snippets and schematics that will remain useful for future projects. Projects are accompanied by downloadable source code, tips and tricks, and video tutorials to help you master Arduino. You'll gain the skills you need to develop your own microcontroller projects! This new 2nd edition has been

updated to cover the rapidly-expanding Arduino ecosystem, and includes new full-color graphics for easier reference. Servo motors and stepper motors are covered in richer detail, and you'll find more excerpts about technical details behind the topics covered in the book. Wireless connectivity and the Internet-of-Things are now more prominently featured in the advanced projects to reflect Arduino's growing capabilities. You'll learn how Arduino compares to its competition, and how to

determine which board is right for your project. If you're ready to start creating, this book is your ultimate guide! Get up to date on the evolving Arduino hardware, software, and capabilities. Build projects that interface with other devices—wirelessly! Learn the basics of electrical engineering and programming. Access downloadable materials and source code for every project. Whether you're a first-timer just starting out in electronics, or a pro looking to mock-up more complex

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builds, Arduino is a fantastic tool for building a variety of devices. This book offers a comprehensive tour of the hardware itself, plus in-depth introduction to the various peripherals, tools, and techniques used to turn your little Arduino device into something useful, artistic, and educational. Exploring Arduino is your roadmap to adventure—start your journey today!

*Introduction to Electrical Engineering MLI Handbook*

The book is written per the syllabus of first year engineering degree course for various universities. It covers

basic topics of electrical and electronics engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other features include attractive writing style, well structured equations and numerical examples, pictures

of high clarity, etc. This book is one of the prescribed text books for the syllabus of Kerala University B. Sc Electronics course. Jones & Bartlett Learning Artificial intelligence has been applied to many areas of science and technology, including the power and energy sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies, engineers and scientists working in this sector need an exhaustive source of current knowledge to effectively cater to the energy

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needs of citizens of developing countries. Computational Methodologies for Electrical and Electronics Engineers is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.