

# Best Book To Learn Electrical Engineering

Sustainable Energy--without the Hot Air  
Distributed Generation  
Fundamentals of Electrical Engineering  
Advanced Electric Drive Vehicles  
Teach Yourself Electricity and Electronics, Sixth Edition  
Theory & Performance Of Electrical Machines  
Basic Electronics  
The Grid  
Electric Machinery  
Practical Electrical Engineering  
Electrical Engineering 101  
Power System Analysis  
Audel Electrical Course for Apprentices and Journeymen  
Ultimate Guide: Wiring, 8th Updated Edition  
Make: Electronics  
Electronics for Kids  
Basic Electrical Engineering  
Power System Analysis and Design  
Practical Electrical Wiring  
Electrical Motor Controls for Integrated Systems  
Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)  
Basic Electrical and Electronics Engineering:  
The Power  
Electricity and Magnetism  
Understanding Basic Electronics  
College Physics  
Basic Electrical Engineering  
How to Diagnose and Fix Everything Electronic, Second Edition  
Electric Circuits and Signals  
Gravity's Rainbow  
Teach Yourself Electricity and Electronics  
Lineman's and Cableman's Handbook 12th Edition  
Practical Electronics for Inventors, Fourth Edition  
Basic Electricity  
The Art of Electronics: The x Chapters  
A First Course in Electrical and Computer Engineering  
Wiring a House  
National Electrical Code 2020  
Handbook of Electrical Design Details  
The Magic School Bus and the Electric Field Trip

## **Sustainable Energy--without the Hot Air**

Electrical units - Measuring devices - Direct-current circuit - Resistors - Cells and batteries - Magnetism - Inductance - Capacitance - Phase - Transformers - Semiconductors - Diodes - Amplifiers - Oscillators - Data transmission.

## **Distributed Generation**

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.

## **Fundamentals of Electrical Engineering I**

This updated edition is an introduction appropriate for both the student and hobbyist to the theory and

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practice of electronics. It leads the reader through introductory understanding of the science underlying electronics, building basic circuits, learning the roles of the components, the application of digital theory and the possibilities for innovation by combining sensors, motors, and microcontrollers. Each chapter contains a brief lab to demonstrate the topic covered then moving on to the final projects that build a programmable robot with the Netduino or Arduino microcontroller and projects using the Raspberry Pi. The companion disc has videos of the labs, soldering skills, and code samples for programming of the robot. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at [info@merclearning.com](mailto:info@merclearning.com). Features:

- Leads the reader through an introductory understanding of electronics with both simple labs and progressing to the construction of a microcontroller-driven robot using open source software and hardware and projects to run on a Raspberry Pi
- Companion disc contains videos of labs, tutorials on soldering/ de-soldering, code for the microcontroller robot project, and figures from the text

## **Advanced Electric Drive Vehicles**

Learn electricity and electronics fundamentals and applications—all without taking a formal course This fully updated guide offers practical, easy-to-follow instruction on electricity and electronics. Written by a pair of experienced instructors, Teach Yourself Electricity and Electronics, Sixth Edition, features

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plain language explanations and step-by-step lessons that make it easy to understand the material quickly. Throughout, detailed illustrations, practical examples, and self-tests reinforce key concepts. Inside, you'll find all-new coverage of switching power supplies, class-D amplifiers, lithium-polymer batteries, microcontrollers—even the Arduino electronics platform. This up-to-date sixth edition covers:

- Direct Current (DC) Circuits
- Resistors
- Cells and Batteries
- Magnetism
- Alternating Current (AC) Circuits
- Inductors and Capacitors
- Phase
- Inductive and Capacitive Reactance
- Impedance and Admittance
- AC Power and Resonance
- Transformers and Impedance Matching
- Semiconductors, Diodes, and Transistors
- Integrated Circuits (ICs) and Electron Tubes
- Amplifiers and Oscillators
- Wireless Transmitters and Receivers
- Digital Circuits
- Microcontrollers, including the Arduino
- Transducers, Sensors, Location, and Navigation
- Acoustics and Audio
- Lasers
- Advanced Communication Systems
- Antennas for RF Communications

## **Teach Yourself Electricity and Electronics, Sixth Edition**

## **Theory & Performance Of Electrical Machines**

A COMPREHENSIVE SOURCE OF TECHNICAL DETAILS ON ELECTRICAL POWER FROM GENERATION TO PRACTICAL APPLICATIONS Reliable, low-cost electric power is a fundamental requirement for modern

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society, making possible such vital services as lighting, HVAC, transportation, communication, and data processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople. This compact, user-friendly edition updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics: \* CAD for preparing electrical drawings and estimates \* Basic switch and receptacle circuit wiring \* Structured wiring for multimedia \* Swimming pool and low-voltage lighting \* Electrical surge protection An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize themselves with the latest advances--regardless of their formal education or training. Reader-helpful features in this edition include: \* Up-front chapter summaries to save time in finding topics of interest. \* References to related articles in the National Electrical Code. \* A bibliography identifying additional sources for digging deeper. \* Approximately 300 illustrations

## Basic Electronics

Why do the lights in a house turn on when you flip a switch? How does a remote-controlled car move? And what makes lights on TVs and microwaves blink? The

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technology around you may seem like magic, but most of it wouldn't run without electricity. *Electronics for Kids* demystifies electricity with a collection of awesome hands-on projects. In Part 1, you'll learn how current, voltage, and circuits work by making a battery out of a lemon, turning a metal bolt into an electromagnet, and transforming a paper cup and some magnets into a spinning motor. In Part 2, you'll make even more cool stuff as you: -Solder a blinking LED circuit with resistors, capacitors, and relays -Turn a circuit into a touch sensor using your finger as a resistor -Build an alarm clock triggered by the sunrise -Create a musical instrument that makes sci-fi sounds Then, in Part 3, you'll learn about digital electronics—things like logic gates and memory circuits—as you make a secret code checker and an electronic coin flipper. Finally, you'll use everything you've learned to make the LED Reaction Game—test your reaction time as you try to catch a blinking light! With its clear explanations and assortment of hands-on projects, *Electronics for Kids* will have you building your own circuits in no time.

### **The Grid**

Winner of the 1974 National Book Award “A screaming comes across the sky. . .” A few months after the Germans' secret V-2 rocket bombs begin falling on London, British Intelligence discovers that a map of the city pinpointing the sexual conquests of one Lieutenant Tyrone Slothrop, U.S. Army, corresponds identically to a map showing the V-2 impact sites. The implications of this discovery will

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launch Slothrop on an amazing journey across war-torn Europe, fleeing an international cabal of military-industrial superpowers, in search of the mysterious Rocket 00000, through a wildly comic extravaganza that has been hailed in *The New Republic* as “the most profound and accomplished American novel since the end of World War II.”

### **Electric Machinery**

One of Bill Gates's Favorite Books of 2016 A revelatory look at our national power grid--how it developed, its current flaws, and how it must be completely reimagined for our fast-approaching energy future. America's electrical grid, an engineering triumph of the twentieth century, is turning out to be a poor fit for the present. It's not just that the grid has grown old and is now in dire need of basic repair. Today, as we invest great hope in new energy sources--solar, wind, and other alternatives--the grid is what stands most firmly in the way of a brighter energy future. If we hope to realize this future, we need to reimagine the grid according to twenty-first-century values. It's a project which forces visionaries to work with bureaucrats, legislators with storm-flattened communities, moneymen with hippies, and the left with the right. And though it might not yet be obvious, this revolution is already well under way. Cultural anthropologist Gretchen Bakke unveils the many facets of America's energy infrastructure, its most dynamic moments and its most stable ones, and its essential role in personal and national life. The grid, she argues, is an

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essentially American artifact, one which developed with us: a product of bold expansion, the occasional foolhardy vision, some genius technologies, and constant improvisation. Most of all, her focus is on how Americans are changing the grid right now, sometimes with gumption and big dreams and sometimes with legislation or the brandishing of guns. The Grid tells--entertainingly, perceptively--the story of what has been called "the largest machine in the world": its fascinating history, its problematic present, and its potential role in a brighter, cleaner future.

### **Practical Electrical Engineering**

### **Electrical Engineering 101**

### **Power System Analysis**

"Based on the 2014 National Electrical Code."

### **Audel Electrical Course for Apprentices and Journeymen**

Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering for both electrical and non-electrical undergraduate students of engineering. Students pursuing diploma courses as well as those appearing for the AMIE (Associate Member of the Institution of Engineers) examination would also find this book extremely useful. Beginning with the fundamentals of electricity

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and electrical elements, the book provides an exhaustive coverage of network theory and analysis, electromagnetic theory and energy conversion, alternating and direct current machines, basic analog instruments, and ends with a brief introduction to power systems.

### **Ultimate Guide: Wiring, 8th Updated Edition**

The Art of Electronics: The x-Chapters expands on topics introduced in the best-selling third edition of The Art of Electronics, completing the broad discussions begun in the latter. In addition to covering more advanced materials relevant to its companion, The x-Chapters also includes extensive treatment of many topics in electronics that are particularly novel, important, or just exotic and intriguing. Think of The x-Chapters as the missing pieces of The Art of Electronics, to be used either as its complement, or as a direct route to exploring some of the most exciting and oft-overlooked topics in advanced electronic engineering. This enticing spread of electronics wisdom and expertise will be an invaluable addition to the library of any student, researcher, or practitioner with even a passing interest in the design and analysis of electronic circuits and instruments. You'll find here techniques and circuits that are available nowhere else.

### **Make: Electronics**

This text blends traditional introductory physics topics

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with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

### **Electronics for Kids**

A guide to residential electricity for professionals and laymen, discussing tools and materials, and offering instruction on how to design electrical wiring, install main service panels, install fixtures and appliances, and other tasks.

### **Basic Electrical Engineering**

As a result of deregulation, the US electric utility industry is undergoing a dramatic transformation with far-reaching technical and social consequences. At the heart of this transformation lies Distributed Generation (DG)-the substitution of centralized electricity production with smaller-scale technologies located in or near facilities and powered by natural gas or renewable resources. The Electric Power Research Institute estimates that 20 percent of all new power generation will use distributed, not centralized technologies. Distributed Generation: The Power Paradigm for the New Millennium is the first step to understanding the myriad issues that surround the newest, most significant trend in power

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production since the steam turbine. Chapters contributed by the top experts in their fields address virtually every aspect of this energy "revolution," from its associated technologies to the regulatory environment and from choosing the right DG system for a given purpose to the novel financial and economic opportunities this paradigm shift presents. This book gives engineers and energy business developers their first opportunity to explore and gain a broad understanding of the new energy landscape. With its detailed discussion of the near-term technologies that will see application in the next few years, *Distributed Generation: The Power Paradigm for the New Millennium* will undoubtedly become the industry's standard reference.

### **Power System Analysis and Design**

The 2020 National Electrical Code covers the most current standards and topics such as: renewable energy and energy storage.

### **Practical Electrical Wiring**

### **Electrical Motor Controls for Integrated Systems**

A Fully Revised Guide to Electronics Troubleshooting and Repair Repair all kinds of electrical products, from modern digital gadgets to analog antiques, with help from this updated book. *How to Diagnose and Fix Everything Electronic, Second Edition*, offers expert

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insights, case studies, and step-by-step instruction from a lifelong electronics guru. Discover how to assemble your workbench, use the latest test equipment, zero in on and replace dead components, and handle reassembly. Instructions for specific devices, including stereos, MP3 players, digital cameras, flat-panel TVs, laptops, headsets, and mobile devices are also included in this do-it-yourself guide. Choose the proper tools and set up your workbench Ensure personal safety and use proper eye and ear protection Understand how electrical components work and why they fail Perform preliminary diagnoses based on symptoms Use test equipment, including digital multimeters, ESR meters, frequency counters, and oscilloscopes Interpret block, schematic, and pictorial diagrams Disassemble products and identify sections Analyze circuits, locate faults, and replace dead parts Re-establish connections and reassemble devices

### **Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)**

Ms. Frizzle takes her class on a field trip through the town's electrical wires so they can learn how electricity is generated and how it is used.

### **Basic Electrical and Electronics Engineering:**

#### **The Power**

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Electrical Motor Controls for Integrated Systems continues the long tradition of technical content presented in a user-friendly format. A comprehensive overview of the control industry is augmented with practical applications used in the field. With new, large detailed illustrations, contemporary photographs, and informative factoids, the premier motor control text remains the first choice of electrical training programs.

### **Electricity and Magnetism**

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

### **Understanding Basic Electronics**

"A hands-on primer for the new electronics enthusiast"--Cover.

### **College Physics**

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily

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extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Basic Electrical Engineering**

The final volume in a three-part series, *Electricity and Magnetism* provides a detailed exposition of classical electric and magnetic fields and analyses of linear electric circuits. The book applies the principles of classical mechanics to systematically reveal the laws governing observed electric and magnetic phenomena. The text culminates in Maxwell's Equations, which, although only four in number, can completely describe all physical aspects of electromagnetism. The specific topics covered in *Electricity and Magnetism* include: Electric force, field, and potential Gauss's Law for Electric Fields Capacitance and networks of capacitors Electric current Resistance and networks of resistors Kirchoff's Rules Steady state and time-dependent DC circuit dynamics Magnetic force and field Production of magnetic fields Ampère's Law Gauss's Law for Magnetic Fields Faraday's Law Induction and inductance AC-driven circuit dynamics and energetics Maxwell's Equations and their plane-wave vacuum solutions This text extends the rigorous calculus-based introduction to classical physics begun in *Elements of Mechanics*. It may be studied independently of the second volume, *Properties of*

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Materials. With more than four hundred and fifty problems included, it can serve as a primary textbook in an introductory physics course, as a student supplement, or as an exam review for graduate or professional studies.

### **How to Diagnose and Fix Everything Electronic, Second Edition**

Solving circuit problems is less a matter of knowing what steps to follow than why those steps are necessary. And knowing the why stems from an in-depth understanding of the underlying concepts and theoretical basis of electric circuits. Setting the benchmark for a modern approach to this fundamental topic, Nassir Sabah's *Electric Circuits and Signals* supplies a comprehensive, intuitive, conceptual, and hands-on introduction with an emphasis on creative problem solving. A Professional Education Ideal for electrical engineering majors as a first step, this phenomenal textbook also builds a core knowledge in the basic theory, concepts, and techniques of circuit analysis, behavior, and operation for students following tracks in such areas as computer engineering, communications engineering, electronics, mechatronics, electric power, and control systems. The author uses hundreds of case studies, examples, exercises, and homework problems to build a strong understanding of how to apply theory to problems in a variety of both familiar and unfamiliar contexts. Your students will be able to approach any problem with total confidence. Coverage ranges from the basics of dc and ac circuits to transients, energy

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storage elements, natural responses and convolution, two-port circuits, Laplace and Fourier transforms, signal processing, and operational amplifiers. Modern Tools for Tomorrow's Innovators Along with a conceptual approach to the material, this truly modern text uses PSpice simulations with schematic Capture® as well as MATLAB® commands to give students hands-on experience with the tools they will use after graduation. Classroom Extras When you adopt Electric Circuits and Signals, you will receive a complete solutions manual along with its companion CD-ROM supplying additional material. The CD contains a Word™ file for each chapter providing bulleted, condensed text and figures that can be used as class slides or lecture notes.

### **Electric Circuits and Signals**

Ultimate Guide: Wiring, 8th Edition demystifies residential electrical systems with easy-to-understand language, step-by-step photography, and detailed illustrations. Homeowners will learn how their home's electrical system works and how to complete installations and repairs. This project-based book shows how to select the right cable, wires, and other equipment, and how to run wiring through walls and between floors. Projects guide the reader through installing switches, outlet receptacles, electrical appliances, and lighting systems. The book also shows how outdoor lighting, including security and low-voltage systems, can help homeowners improve and illuminate the exterior areas around their homes. The eighth edition has been updated with the latest

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information on everything from big screen TVs to 3-way switches required by the National Electrical Code.

### **Gravity's Rainbow**

Introduces basic electronics, discussing analog and digital electronic circuits, Ohm's Law, and resonant circuits.

### **Teach Yourself Electricity and Electronics**

What would happen if women suddenly possessed a fierce new power? "The Power is our era's The Handmaid's Tale." --Ron Charles, Washington Post  
**\*\*WINNER OF THE BAILEYS WOMEN'S PRIZE FOR FICTION\*\*** One of the New York Times's Ten Best Books of the Year One of President Obama's favorite reads of the Year A Los Angeles Times Best Book of the Year One of the Washington Post's Ten Best Books of the Year An NPR Best Book of the Year One of Entertainment Weekly's Ten Best Books of the Year A San Francisco Chronicle Best Book of the Year A Bustle Best Book of the Year A Paste Magazine Best Novel of the Year A New York Times Book Review Editors' Choice An Amazon Best Book of the Year "Alderman's writing is beautiful, and her intelligence seems almost limitless. She also has a pitch-dark sense of humor that she wields perfectly." --Michael Schaub, NPR  
In **THE POWER**, the world is a recognizable place: there's a rich Nigerian boy who lounges around the family pool; a foster kid whose religious parents hide their true nature; an ambitious American politician; a tough

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London girl from a tricky family. But then a vital new force takes root and flourishes, causing their lives to converge with devastating effect. Teenage girls now have immense physical power--they can cause agonizing pain and even death. And, with this small twist of nature, the world drastically resets. From award-winning author Naomi Alderman, **THE POWER** is speculative fiction at its most ambitious and provocative, at once taking us on a thrilling journey to an alternate reality, and exposing our own world in bold and surprising ways.

### **Lineman's and Cableman's Handbook 12th Edition**

Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

### **Practical Electronics for Inventors, Fourth Edition**

### **Basic Electricity**

The definitive guide to distribution and transmission line technology--fully updated Completely revised to reflect the 2012 National Electrical Safety Code (NESC), *The Lineman's and Cableman's Handbook, 12th Edition*, provides in-depth information on

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overhead and underground distribution and transmission lines. The latest OSHA, ANSI, and ASTM standards are emphasized throughout. This authoritative resource presents basic principles, equipment, standards, and safety regulations, allowing electrical workers to avoid costly errors, diagnose and repair power failures, and ensure optimum safety. A wealth of illustrations and photographs make it easy to understand the material, and self-test questions and exercises help reinforce key concepts. Comprehensive coverage includes:

- Electrical principles and systems
- Substations
- Circuits
- Construction
- Wood-pole, aluminum, concrete, fiberglass, and steel structures
- Distribution automation
- Emergency system restoration
- Unloading, hauling, erecting, setting, and guying poles
- Insulators, crossarms, and conductor supports
- Line conductors
- Distribution transformers
- Lightning and surge protection
- Fuses
- Switches, sectionalizers, and reclosers
- Voltage regulators
- Transmission tower erection
- Stringing, sagging, and joining line conductors
- Live-line maintenance
- Grounding
- Street lighting
- Underground distribution
- Vegetation management
- Distribution transformer installation
- Electrical drawing symbols
- Single-line and schematic diagrams
- Voltage regulation
- Units of measurement, electrical definitions, electrical formulas, and calculations
- Maintenance of transmission and distribution lines
- Rope, knots, splices, and gear
- Climbing and wood poles
- Protective equipment
- OSHA 1910.269
- Resuscitation
- Pole-top and bucket rescue

## **The Art of Electronics: The x Chapters**

### **A First Course in Electrical and Computer Engineering**

A Fully-Updated, No-Nonsense Guide to Electronics Advance your electronics knowledge and gain the skills necessary to develop and construct your own functioning gadgets. Written by a pair of experienced engineers and dedicated hobbyists, Practical Electronics for Inventors, Fourth Edition, lays out the essentials and provides step-by-step instructions, schematics, and illustrations. Discover how to select the right components, design and build circuits, use microcontrollers and ICs, work with the latest software tools, and test and tweak your creations. This easy-to-follow book features new instruction on programmable logic, semiconductors, operational amplifiers, voltage regulators, power supplies, digital electronics, and more. Practical Electronics for Inventors, Fourth Edition, covers: Resistors, capacitors, inductors, and transformers Diodes, transistors, and integrated circuits Optoelectronics, solar cells, and phototransistors Sensors, GPS modules, and touch screens Op amps, regulators, and power supplies Digital electronics, LCD displays, and logic gates Microcontrollers and prototyping platforms Combinational and sequential programmable logic DC motors, RC servos, and stepper motors Microphones, audio amps, and speakers Modular electronics and prototypes

## Wiring a House

### National Electrical Code 2020

Electrification is an evolving paradigm shift in the transportation industry toward more efficient, higher performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, *Advanced Electric Drive Vehicles* begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles—i.e., power electronic converters, electric machines, electric motor controllers, and energy storage systems. This comprehensive work: Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in advanced electric drive vehicles

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Contains numerous illustrations, practical examples, case studies, and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications. *Advanced Electric Drive Vehicles* makes an ideal textbook for senior-level undergraduate or graduate engineering courses and a user-friendly reference for researchers, engineers, managers, and other professionals interested in transportation electrification.

### **Handbook of Electrical Design Details**

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: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount

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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.

### **The Magic School Bus and the Electric Field Trip**

Spend your study time wisely As you advance from student to apprentice to journeyman status, you log a lot of study hours. Make the most of those hours with this fully updated, sharply focused self-study course. It contains everything you need to know about electrical theory and applications, clearly defined and logically organized, with illustrations for clarity and review questions at the end of each chapter to help you test your knowledge.

- \* Understand electron theory and how electricity affects matter
- \* Recognize applications for both alternating and direct current
- \* Comprehend Ohm's Law and the laws governing magnetic circuits
- \* Learn from detailed drawings and diagrams
- \* Explore trigonometry and alternative methods of calculation
- \* Identify instruments and measurements used in electrical applications
- \* Apply proper grounding and ground testing, insulation testing, and power factor correction

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