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Teach Yourself Electricity and Electronics. This page intentionally left blank . Teach Yourself Electricity and Electronics Fourth Edition Stan Gibilisco McGraw-Hill New York Chicago San Francisco Lisbon London Madrid Mexico City Milan New Delhi San Juan Seoul Singapore Sydney Toronto.

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Teach Yourself Electricity and Electronics is divided into four major sections: Direct Current, Alternating Current, Basic Electronics, and Advanced Electronics and Related Technology. Each chapter has comprehensive quizzes and each section finishes with a multiple-choice test.

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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 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

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

Learning about electricity & electronics is easy with this well-illustrated guide for beginners. Assuming that readers have no technical or scientific background, Stan Gibilisco begins with the laws of atomic & molecular activity & progresses logically through the principles of direct & alternating current, magnetism, inductance, capacitance, resistance, reactance, & impedance. He also takes the mystery out of electronics equipment, explaining the purpose & use of power supplies, measuring devices, resistors, filters, diodes, semiconductors, transistors, amplifiers, oscillators, transformers, & more. Throughout, Gibilisco's instruction reflects the latest advances in analog &

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Up-to-date, easy-to-follow coverage of electricity and electronics In Teach Yourself Electricity and Electronics, Fifth Edition, a master teacher provides step-by-step lessons in electricity and electronics fundamentals and applications. Detailed illustrations, practical examples, and hundreds of test questions make it easy to learn the material quickly. This fully revised resource starts with the basics and takes you through advanced applications, such as communications systems and robotics. Solve current-voltage-resistance-impedance problems, make power calculations, optimize system performance, and prepare for licensing exams with help from this hands-on guide. Updated for the latest technological trends: Wireless Systems Fiber Optics Lasers Space Communications Mechatronics Comprehensive coverage includes: Direct-Current Circuit Basics and Analysis \* Resistors \* Cells and Batteries \* Magnetism \* Inductance \* Capacitance \* Phase \* Inductive and Capacitive Reactance \* Impedance and Admittance \* Alternating-Current Circuit Analysis, Power, and Resonance \* Transformers and Impedance Matching \* Semiconductors \* Diode Applications \* Power Supplies \* Bipolar and Field-Effect Transistors \* Amplifiers and Oscillators \* Digital and Computer Basics \* Antennas for RF Communications \* Integrated Circuits \* Electron Tubes \* Transducers, Sensors, Location, and Navigation \* Acoustics and Audio Fundamentals \* Advanced Communications Systems Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

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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 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

Written by Stan Gibilisco, an electronics legend and McGraw-Hill's most popular TAB author Perfect for hobbyists, students, and those who want to get ahead in tech-related careers Packed with everything needed to enhance learning: 600+ illustrations, practical examples, and hundreds of test questions

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