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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

Learn about electronics with fun experiments and projects Created in partnership with Thames & Kosmos, Basic Electronics for Tomorrow's Inventors introduces you to essential electronics concepts through fun, do-it-yourself projects. You'll get tips for setting up your home workbench, safely handling materials, and creating a variety of entertaining gadgets. All of the projects and experiments use inexpensive, readily available electronic components and different types of breadboard, which creates a plug-and-play environment for you to build electronic circuits—no soldering required! Inside you'll find: Things You'll Need--lists of all the electronic components and equipment required for each experiment A Circuit Diagram--shows how each of the electronic components are connected to produce the experiment How the Circuit Works--identifies the building blocks used to make the circuit and helps you read circuit diagrams Breadboard Layout--close-up photographs that guide you in building each electronic circuit Time to Experiment--explains how to get your experiment working Step-by-step projects include: Phone experiments Make an LED light up Make an LED flash Create colors with an RGB LED Build a working telephone Dashboard experiments Create indicator lights Build a temperature sensor Make an electronic horn Set up a water sensor Security experiments Design a basic alarm circuit Make a pressure-sensitive mat Create a touch-activated alarm Build an electronic security keypad Make a reading light that

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switches on when it goes dark Electronic game experiments Create a random number generator Flip an electronic coin Get ready for infrared target practice Build a sound-effects generator

Ideal for a one-semester course, this concise textbook covers basic electronics for undergraduate students in science and engineering. Beginning with the basics of general circuit laws and resistor circuits to ease students into the subject, the textbook then covers a wide range of topics, from passive circuits through to semiconductor-based analog circuits and basic digital circuits. Using a balance of thorough analysis and insight, readers are shown how to work with electronic circuits and apply the techniques they have learnt. The textbook's structure makes it useful as a self-study introduction to the subject. All mathematics is kept to a suitable level, and there are several exercises throughout the book. Password-protected solutions for instructors, together with eight laboratory exercises that parallel the text, are available online at www.cambridge.org/Eggleston.

This clear, well-illustrated introduction to electronic equipment covers the safe use of electronic devices and basic test equipment, plus numerous essential topics: electron tubes, semiconductors, electronic power supplies, tuned circuits, an introduction to amplifiers, receivers, ranging and navigation systems, an introduction to computers, antennas, AM/FM, and much more. 560 illustrations.

Basic Electronics is an elementary text designed for basic instruction in electricity and

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electronics. It gives emphasis on electronic emission and the vacuum tube and shows transistor circuits in parallel with electron tube circuits. This book also demonstrates how the transistor merely replaces the tube, with proper change of circuit constants as required. Many problems are presented at the end of each chapter. This book is comprised of 17 chapters and opens with an overview of electron theory, followed by a discussion on resistance, inductance, and capacitance, along with their effects on the currents flowing in circuits under constant applied voltages. Resistances, inductances, and capacitances in series and parallel are considered. The following chapters focus on impedance and factors affecting impedance; electronics and electron tubes; semiconductors and transistors; basic electronic circuits; and basic amplifier circuits. Tuned circuits, basic oscillator circuits, and electronic power supplies are also described, together with transducers, antennas, and modulators and demodulators. This monograph will serve as background training in theory for electronic technicians and as fundamental background for students who wish to go deeper into the more advanced aspects of electronics.

This book is primarily designed to serve as a textbook for undergraduate students of electrical, electronics, and computer engineering, but can also be used for primer courses across other disciplines of engineering and related sciences. The book covers all the basic aspects of electronics engineering, from electronic materials to devices, and then to basic electronic circuits. The book can be used for freshman (first year) and sophomore (second year) courses in undergraduate engineering. It can also be used as a supplement or primer for more advanced courses in electronic circuit design. The book uses a simple narrative style,

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thus simplifying both classroom use and self study. Numerical values of dimensions of the devices, as well as of data in figures and graphs have been provided to give a real world feel to the device parameters. It includes a large number of numerical problems and solved examples, to enable students to practice. A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework. The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework.

The book gives an exhaustive exposition of the fundamental concepts, techniques and devices in Basic Electronics Engineering. The book covers the basic course in basic electronics of almost all the Indian technical universities and some foreign universities as well. It is particularly well suited undergraduate students of all Engineering disciplines. Diploma students of EEE and ECE will find useful too. Basic Electronics is designed as the one-stop solution for those attempting to teach as well as study a course on Basic Electronics. The carefully developed pedagogy will help the instructor pick thought-provoking questions for tutorials and examinations, as well as allow plenty of practice for the students. Salient Features • Approach modular, and exposition of subject matter through illustrations • Block-diagrams and circuit diagrams used aplenty to enhance understanding • Pedagogy count and features: • Solved Examples- 136 • MCQs- 189 • Review Questions- 235 • Problems- 163 • Diagrams- 409

Basic Electronics, meant for the core science and technology courses in engineering colleges

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and universities, has been designed with the key objective of enhancing the students' knowledge in the field of electronics. Solid state electronics, a rapidly-evolving field of study, has been extensively researched for the latest updates, and the authors have supplemented the related chapters with customized pedagogical features. The required knowledge in mathematics has been developed throughout the book and no prior grasp of physical electronics has been assumed as an essential requirement for understanding the subject. Detailed mathematical derivations illustrated by solved examples enhance the understanding of the theoretical concepts. With its simple language and clear-cut style of presentation, this book presents an intelligent understanding of a complex subject like electronics.

With the presence of enhanced pedagogical features, the text will help readers in understanding fundamental concepts of electronics engineering.

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