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Introduction to Electrical Engineering:
Electrical Engineering is the branch of study

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in which we study the flow of electrons, effects of the flow of electrons, devise the techniques in order to control the flow of electrons. The electrical engineering also studies the electrical properties of the different elements and thus manipulates the electrical properties of these elements in order to accomplish different purposes.

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Electrical engineering (sometimes referred to as electrical and electronic engineering) is a professional engineering discipline that deals with the study and application of electricity, electronics and electromagnetism. The field first became an identifiable occupation in the late nineteenth century with the commercialization of the electric telegraph and electrical power supply.

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Introduction to electrical engineering / Mulukutla S. Sarma p. cm. — (The Oxford series in electrical and computer engineering) ISBN 0-19-513604-7 (cloth) 1. Electrical engineering. I. Title. II. Series. TK146.S18 2001 621.3-dc21 00-020033

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THE DIGITAL INFORMATION AGE SECOND EDITION by bestselling author Roman Kuc is designed for students considering electrical engineering as a major, and non-engineering majors interested in understanding digital communication systems. Communication between humans and smart devices takes place through sensors and actuators, with logic circuits manipulating binary data to implement useful tasks. The text then examines the basic problem of communicating audio and video data over a network connecting computers and smart devices. System operation is described from analog-to-digital conversion, signals that encode data, through the processing that extracts data from noise-corrupted signals and error correction techniques, to data packet transmission over wired and wireless networks. Basic topics from probability and digital signal processing are presented as needed and illustrated with relevant examples. Ideas are illustrated and extended by problems and projects completed in Excel, with sophistication that evolves along with the course, starting with spreadsheet formulas and graphs, through macros, to simple Visual Basic for Applications (VBA) programming that produces animations that simulate system operation. The accrued facility with Excel techniques is a course outcome valued by students in all majors. Important Notice: Media content referenced

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within the product description or the product text may not be available in the ebook version.

Unlike books 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 OpenCourse Ware 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.

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A clear explanation of the technology for producing and delivering electricity *Electric Power Systems* explains and illustrates how the electric grid works in a clear, straightforward style that makes highly technical material accessible. It begins with a thorough discussion of the underlying physical concepts of electricity, circuits, and complex power that serves as a foundation for more advanced material. Readers are then introduced to the main components of electric power systems, including generators, motors and other appliances, and transmission and distribution equipment such as power lines, transformers, and circuit breakers. The author explains how a whole power system is managed and coordinated, analyzed mathematically, and kept stable and reliable. Recognizing the economic and environmental implications of electric energy production and public concern over disruptions of service, this book exposes the challenges of producing and delivering electricity to help inform public policy decisions. Its discussions of complex concepts such as reactive power balance, load flow, and stability analysis, for example, offer deep insight into the complexity of electric grid operation and demonstrate how and why physics constrains economics and politics. Although this survival guide includes mathematical

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equations and formulas, it discusses their meaning in plain English and does not assume any prior familiarity with particular notations or technical jargon. Additional features include: * A glossary of symbols, units, abbreviations, and acronyms * Illustrations that help readers visualize processes and better understand complex concepts * Detailed analysis of a case study, including a Web reference to the case, enabling readers to test the consequences of manipulating various parameters With its clear discussion of how electric grids work, Electric Power Systems is appropriate for a broad readership of professionals, undergraduate and graduate students, government agency managers, environmental advocates, and consumers.

With practically-oriented coverage of all the basic concepts in electrical engineering, this text is a general introduction to the field. It integrates conceptual discussions with current, relevant technological applications, presenting modularized coverage of a wide range of topics. In addition, it aims to offer strong pedagogical support and clear explanations.

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

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electrostatic fields and batteries. The basic concepts and techniques in circuit analysis are explained next. This 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.

A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on "Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK.

A great resource for beginner students and professionals alike Introduction to Energy, Renewable Energy and Electrical Engineering: Essentials for Engineering Science (STEM) Professionals and Students brings together the fundamentals of Carnot's laws of thermodynamics, Coulomb's law, electric circuit theory, and semiconductor technology. The book is the perfect introduction to energy-related fields for undergraduates and non-electrical engineering students and professionals with knowledge of Calculus III.

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Its unique combination of foundational concepts and advanced applications delivered with focused examples serves to leave the reader with a practical and comprehensive overview of the subject. The book includes: A combination of analytical and software solutions in order to relate aspects of electric circuits at an accessible level A thorough description of compensation of flux weakening (CFW) applied to inverter-fed, variable-speed drives not seen anywhere else in the literature Numerous application examples of solutions using PSPICE, Mathematica, and finite difference/finite element solutions such as detailed magnetic flux distributions Manufacturing of electric energy in power systems with integrated renewable energy sources where three-phase inverter supply energy to interconnected, smart power systems Connecting the energy-related technology and application discussions with urgent issues of energy conservation and renewable energy—such as photovoltaics and ground-water heat pump resulting in a zero-emissions dwelling—Introduction to Energy, Renewable Energy, and Electrical Engineering crafts a truly modern and relevant approach to its subject matter.

This comprehensive revision of a popular text helps non-electrical engineering majors--the future users, rather than the designers of electrical devices, systems, and

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machines--gain a conceptual understanding of electrical engineering. Early coverage of systems and an emphasis on an IC (integrated circuits) "building block" approach motivates non-majors. The text features integration of analog and digital technology with cutting-edge coverage of op-amps, feedback and analog systems. A section on SPICE, the leading computer-aided circuit analysis software, introduces students to computerized analysis of circuits. Chapter-end Applications capture student interest by relating material to contemporary topics such as automobile suspension systems, high-fidelity audio, and hand-held computers.

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