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Electrical engineering is the engineering discipline which encompasses the use of electronics, electricity and electromagnetism for driving innovations. It is divided into other significant sub-disciplines such as power engineering, electronics, computer engineering, signal processing, microelectronics, etc. Power engineering is concerned with the production, transmission and distribution of electricity. It also deals with the design of electric generators, transformers, electric motors, etc. Electronic circuits are designed using capacitors, resistors, inductors, transistors and diodes to achieve a particular function. The design and testing of such circuits is under the scope of electronic engineering. Signal processing deals with the manipulation and analysis of signals. It has applications in communications, control, broadcast engineering, radar, power electronics, etc. This book covers in detail some existent theories and innovative concepts revolving around electrical engineering. The various sub-fields of this discipline along with technological progress that have future implications are glanced at in this book. It is a vital tool for all researching or studying electrical engineering as it gives incredible insights into emerging trends.

"The principal objective of the book is to present the principles of electrical, electronic, and electromechanical engineering to an audience of engineering majors, ranging from sophomores in an introductory electrical engineering course to seniors and first-year graduate students enrolled in more specialized courses in electronics, electro mechanics, and mechatronics"--

Electrical engineering is a domain of engineering that deals with the study, development, and applications of electrical devices and systems. It involves the designing, development, testing and supervision of deployment of varied electrical systems and electronic devices. Some common tasks include the lighting and wiring of buildings, electrical control of industrial machinery, designing telecommunication systems, etc. The principles of physics and mathematics are fundamental to the science of electrical engineering. Some of the diverse fields encompassed within this discipline include systems engineering, telecommunications, computer engineering, signal processing, electronics, etc. Studies and research in electrical engineering have contributed to the development of a wide range of technologies. The topics covered in this extensive book deal with the core aspects of electrical

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