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Power electronics, which is a rapidly growing area in terms of research and applications, uses modern electronics technology to convert electric power from one form to another, such as ac-dc, dc-dc, dc-ac, and ac-ac with a variable output magnitude and frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, sub-way trains, motor drives, renewable energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods and some examples of their applications. * 25% new content * Reorganized and revised into 8 sections comprising 43 chapters * Coverage of numerous applications, including uninterruptable power supplies and automotive electrical systems * New content in power generation and distribution, including solar power, fuel cells, wind turbines, and flexible transmission

For junior or senior undergraduate students in Electrical and Electronic Engineering. This text covers the basics of emerging areas in power electronics and a broad range of topics such as power switching devices, conversion methods, analysis and techniques, and applications. Its unique approach covers the characteristics of semiconductor devices first, then discusses the applications of these devices for power conversions. Four main applications are included: flexible ac transmissions (FACTS), static switches, power supplies, dc drives, and ac drives.

For junior or senior undergraduate students in Electrical and Electronic Engineering. This text is also suitable for individuals interested in the fields of electrical and electronic engineering. This text covers the basics of emerging areas in power electronics and a broad range of topics such as power switching devices, conversion methods, analysis and techniques, and applications. Its unique approach covers the characteristics of semiconductor devices first, then discusses the applications of these devices for power conversions. Four main applications are included: flexible ac transmissions (FACTS), static switches, power supplies, dc drives, and ac drives.

This state-of-the-art book covers the basics of emerging areas in power electronics and a broad range of topics such as power switching devices, conversion methods, analysis and techniques, and applications. Its unique approach covers the characteristics of semiconductor devices first, and then discusses the applications of these devices for power conversions. Well-written and easy-to-follow, the book features numerous worked-out examples that demonstrate the applications of conversion techniques in design and analysis of converter circuits. Chapter topics include power semiconductor diodes and circuits, diode rectifiers, power transistors, DC-DC converters, pulse-width modulated inverters, thyristors, resonant pulse inverters, multilevel inverters, controlled rectifiers, AC voltage controllers, static switches, flexible ac transmission systems, power supplies, DC and AC drives, gate drive circuits, and protection of devices and circuits. For individuals in interested in the fields of electrical and electronic engineering.

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The purpose of this book is to describe the theory of Digital Power Electronics and its applications. The authors apply digital control theory to power electronics in a manner thoroughly different from the traditional, analog control scheme. In order to apply digital control theory to power electronics, the authors define a number of new parameters, including the energy factor, pumping energy, stored energy, time constant, and damping time constant. These parameters differ from traditional parameters such as the power factor, power transfer efficiency, ripple factor, and total harmonic distortion. These new parameters result in the definition of new mathematical modeling: * A zero-order-hold (ZOH) is used to simulate all AC/DC rectifiers. * A first-order-hold (FOH) is used to simulate all DC/AC inverters. * A second-order-hold (SOH) is used to simulate all DC/DC converters. * A first-order-hold (FOH) is used to simulate all AC/AC (AC/DC/AC) converters. * Presents most up-to-date methods of analysis and control algorithms for developing power electronic converters and power switching circuits * Provides an invaluable reference for engineers designing power converters, commercial power supplies, control systems for motor drives, active filters, etc. * Presents methods of analysis not available in other books.

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