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FUNDAMENTALS OF POWER ELECTRONICS, 2ND EDITION by ERICKSON ROBERT W. ET. AL and a great selection of related books, art and collectibles available now at AbeBooks.com.

This six-part book fully and completely explains the principles, models, and technical requirements of power electronics at a higher level than is currently published. The book moves logically from theory to application-specific material, covering in one source what readers are currently finding in two or more texts. Bob Erickson creates the context in Parts 1 and 2 of his book covering converter circuits and electronics, semiconductor devices, analytical assessment techniques, converter topologies, and AC-modeling of DC converters. Later chapters cover theory, design, and application techniques for control systems, magnetics, converters, inverters, and filters. Each chapter includes homework problems, step-by-step design techniques, and real-world examples.

Electronics has undergone important and rapid developments over the last 60 years, which have generated a large range of theoretical and practical notions. This book presents a comprehensive treatise of the evolution of electronics for the reader to grasp both fundamental concepts and the associated practical applications through examples and exercises. This first volume of the Fundamentals of Electronics series comprises four chapters devoted to elementary devices, i.e. diodes, bipolar junction transistors and related devices, field effect transistors and amplifiers, their electrical models and the basic functions they can achieve. Volumes to come will deal with systems in the continuous time regime, the various aspects of sampling signals and systems using analog (A) and digital (D) treatments, quantized level systems, as well as DA and AD converter principles and realizations.

This exciting reference text is concerned with fluid power control. It is an ideal reference for the practising engineer and a textbook for advanced courses in fluid power control. In applications in which large forces and/or torques are required, often with a fast response time, oil-hydraulic control systems are essential. They excel in environmentally difficult applications because the drive part can be designed with no electrical components and they almost always have a more competitive power/weight ratio compared to electrically actuated systems. Fluid power systems have the capability to control several parameters, such as pressure, speed, position, and so on, to a high degree of accuracy at high power levels. In practice there are many exciting challenges facing the fluid power engineer, who now must preferably have a broad skill set.

Designed for polytechnic and undergraduate students of electrical/electronics, this book offers short questions and answers at the end of chapters. It is also suitable for those preparing for professional courses like AMIE and AMITE.

Simulation of Power Electronics Converters Using PLECS® is a guide to simulating a power electronics circuit using the latest powerful software for power electronics circuit simulation purposes. This book assists engineers gain an increased understanding of circuit operation so they can, for a given set of specifications, choose a topology, select appropriate circuit component types and values, estimate circuit performance, and complete the design by ensuring that the circuit performance will meet specifications even with the anticipated variations in operating conditions and circuit component values. This book covers the fundamentals of power electronics converter simulation, along with an analysis of power electronics converters using PLECS. It concludes with real-world simulation examples for applied content, making this book useful for all those in the electrical and electronic engineering field. Contains unique examples on the simulation of power electronics converters using PLECS® Includes explanations and guidance on all included simulations for re-doing the simulations Incorporates analysis and design for rapidly creating power electronics circuits with high accuracy

Power Electronics is intended to be an introductory text in power electronics, primarily for the undergraduate electrical engineering student. The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit solution techniques.

With this revised edition we aim to present a text on Power Electronics for the UG level which will provide a comprehensive coverage of

converters, choppers, inverters and motor drives. All this, with a rich pedagogy to support the conceptual understanding and integral use of PSPICE.

A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students

This book presents a synthesis of Electronics through keynotes which are substantiated in three volumes. The first one comprises four chapters devoted to elementary devices, i.e. diodes, bipolar transistors and related devices, field effect transistors and amplifiers. In each of one, device physics, non linear and linearized models, and applications are studied. The second volume is devoted to systems in the continuous time regime and contains two chapters: one describes different approaches to the transfer function concept and applications, and the following deals with the quadripole properties, filtering and filter synthesis. The third volume presents the various aspects of sampling systems and quantized level systems in the two last chapters.

This book reviews numerous research papers published in the last fifteen years in the area of current injection based rectifiers. A partial list of coverage includes analysis of various magnetic current injection devices, the third harmonic current injection, injection networks, and optimal current injection. The book will be of interest to professionals involved in design of low-harmonic three-phase rectifiers, as well as students and researchers.

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