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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



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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

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.

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.

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Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field. This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described, complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor's manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of power electronic converters. Introduction to Modern Power Electronics, Third Edition: Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac. Reviews advanced control methods used in today's power electronic converters. Includes an extensive body of examples, exercises, computer assignments, and simulations. Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.

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In this comprehensive and systematically presented text, the various aspects of modern power system operation and control are discussed. Covered in the volume are: computer configurations and control aids, load-frequency control and automatic generation control, reactive power planning and scheduling procedure, security monitoring, and control under emergency conditions. Also presented are case study reports on power grid failures in different countries, examining how they occurred, how they were handled, and what lessons that they can provide. A "defence" plan against similar major disturbances is detailed, including the overall system architecture adopted and the processing and communication sub-systems.

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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stability problem, its physical description and formulation. Discusses methods for transient stability analysis, sensitivity assessment and control. Considers conventional and non-conventional techniques including direct and artificial intelligence, system theory, load modeling, evaluation of machine parameters, saturation effects and pattern recognition approaches. Features practical examples and simulation results.

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