

Solution Manual Fundamentals Of Power Electronics Erickson

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• Supports self-study with end-of-chapter problems and instructors with solutions manual via companion website Fundamentals of Power System Economics, Second Edition is essential reading for graduate and undergraduate students, professors, practicing engineers, as well as all others who want to understand how economics and power system engineering interact. ABOUT THE AUTHOR

Fundamentals of Power Semiconductor Devices provides an in-depth treatment of the physics of operation of power semiconductor devices that are commonly used by the power electronics industry. Analytical models for explaining the operation of all power semiconductor devices are shown. The treatment here focuses on silicon devices but includes the unique attributes and design requirements for emerging silicon carbide devices. The book will appeal to practicing engineers in the power semiconductor device community.

This Solution Manual, a companion volume of the book, Fundamentals of Solid-State Electronics, provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book. This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state-of-the-art transistor reliability problems which have been taught to advanced undergraduate and graduate students. This book is also available as a set with Fundamentals of Solid-State Electronics and Fundamentals of Solid-State Electronics — Study Guide.

This book is intended for a course that combines machinery and power systems into one semester. It is designed to be flexible and to allow instructors to choose chapters a la carte, so the instructor controls the emphasis. The text gives students the information they need to become real-world engineers, focusing on principles and teaching how to use information as opposed to doing a lot of calculations that would rarely be done by a practising engineer. The author compresses the material by focusing on its essence, underlying principles. MATLAB is used throughout the book in examples and problems.

During the last decade many new concepts have been proposed for improving the performance of power MOSFETs. The results of this research are dispersed in the technical literature among journal articles and abstracts of conferences. Consequently, the information is not readily available to researchers and practicing engineers in the power device community. There is no cohesive treatment of the ideas to provide an assessment of the relative merits of the ideas. "Advanced Power MOSFET Concepts" provides an in-depth treatment of the physics of operation of advanced power MOSFETs. Analytical models for explaining the operation of all the advanced power MOSFETs will be developed. The results of numerical simulations will be provided to give additional insight into the device physics and validate the analytical models. The results of two-dimensional simulations will be provided to corroborate the analytical models and give greater insight into the device operation.

During the last decade, many new concepts have been proposed for improving the performance of power rectifiers and transistors. The results of this research are dispersed in the technical literature among journal articles and abstracts of conferences. Consequently, the information is not readily available to researchers and practicing engineers in the power device community. There is no cohesive treatment of the ideas to provide an assessment of the relative merits of the ideas. Advanced Power Rectifier Concepts provides an in-depth treatment of the physics of operation of advanced power rectifiers. Analytical models for explaining the operation of all the advanced power rectifier devices will be developed. The results off numerical simulations will be provided to provide additional insight into the device physics and validate the analytical models. The results of two-dimensional simulations will be provided to corroborate the analytical models and provide greater insight into the device operation.

The IGBT device has proved to be a highly important Power Semiconductor, providing the basis for adjustable speed motor drives (used in air conditioning and refrigeration and railway locomotives), electronic ignition systems for gasolinepowered motor vehicles and energy-saving compact fluorescent light bulbs. Recent applications include plasma displays (flat-screen TVs) and electric power transmission systems, alternative energy systems and energy storage. This book is the first available to cover the applications of the IGBT, and provide the essential information needed by applications engineers to design new products using the device, in sectors including consumer, industrial, lighting, transportation, medical and renewable energy. The author, B. Jayant Baliga, invented the IGBT in 1980 while working for GE. His book will unlock IGBT for a new generation of engineering applications, making it essential reading for a wide audience of electrical engineers and design engineers, as well as an important publication for semiconductor specialists. Essential design information for applications engineers utilizing IGBTs in the consumer, industrial, lighting, transportation, medical and renewable energy sectors. Readers will learn the methodology for the design of IGBT chips including edge terminations, cell topologies, gate layouts, and integrated current sensors. The first book to cover applications of the IGBT, a device manufactured around the world by more than a dozen companies with sales exceeding \$5 Billion; written by the inventor of the device.

The devices described in "Advanced MOS-Gated Thyristor Concepts" are utilized in microelectronics production equipment, in power transmission equipment, and for very high power motor control in electric trains, steel-mills, etc. Advanced concepts that enable improving the performance of power thyristors are discussed here, along with devices with blocking voltage capabilities of 5,000-V, 10,000-V and 15,000-V. Throughout the book, analytical models are generated to allow a simple analysis of the structures and to obtain insight into the underlying physics. The results of two-dimensional simulations are provided to corroborate the analytical models and give greater insight into the device operation.

A concise, thorough introduction to modern power electronics This comprehensive overview of the modern tools and techniques of electric power conversion covers the fundamentals of power electronics. Unlike other textbooks on the subject, which often include a great deal of extraneous information. Introduction to Modern Power Electronics presents essential material that can be covered easily in a one-semester course. This streamlined text examines low-, medium-, and high-power conversion issues and the electronic converters that process power for a variety of applications. Following recent trends in power electronics technology, greater stress is placed on pulse-width modulated (PWM) converters than in any other textbook. Modern power electronic converters, such as the resonant dc-link and multilevel inverters or matrix converters, are thoroughly covered. Special features include: * Comprehensive, easy-to-understand coverage of the principles and methods of electric power conversion using a hypothetical generic power converter * Descriptions of various types of semiconductor power switches and complementary components and systems for power electronic converters * In-depth discussions of all power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac * Separate chapter on switching power supplies A companion set of 48 PSpice circuit files, available on the Internet, constitutes a virtual laboratory of power electronics. This valuable teaching tool contains models of most of the power electronic converters and techniques covered in the book. It gives students the opportunity to tinker with converters and see how they actually work. Ideal for electrical engineering students at the senior undergraduate level, Introduction to Modern Power Electronics is also a handy reference tool for advanced students and practicing engineers.

Interest in power systems economics is gaining momentum with the recent power supply shortages in America and the rising cost of fossil fuels. The involvement of independent power generators, brokers and distributors has changed the way in which power systems operate. Kirschen and Strbac use a combination of traditional engineering techniques and fundamental economics to address the long-term problems of power system development in a competitive environment. Power system engineers, operators, planners and policy makers working in the deregulated environment will value this practical guide, also of great interest to postgraduate and advanced undergraduate students in electrical and power engineering. Outlines the principles of competitive electricity markets alongside the operation and development of the supporting transmission and distribution networks Applies basic economic principles to power system operating and planning Written by recognised experts in the field For further information and to register for the solutions manual visit: <http://www.wiley.com/go/powersystemeconomics>

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