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For undergraduate electrical engineering students or for practicing engineers and scientists, interested in updating their understanding of modern electronics. One of the most widely used introductory books on semiconductor materials, physics, devices and technology, this text aims to: 1) develop basic semiconductor physics concepts, so students can better understand current and future devices; and 2) provide a sound understanding of current semiconductor devices and technology, so that their applications to electronic and optoelectronic circuits and systems can be appreciated. Students are brought to a level of understanding that will enable them to read much of the current literature on new devices and applications.

This book is designed to help readers gain a basic understanding of semiconductor devices and the physical operating principles behind them. This two-fold approach 1) provides the user with a sound understanding of existing devices, and 2) helps them develop the basic tools with which they can later learn about applications and the latest devices. The piece provides one of the most comprehensive treatments of all the important semiconductor devices, and reflects the most current trends in the technology and theoretical understanding of the device. FEATURES/BENEFITS \*NEW--Thoroughly updated to reflect the most current trends in the technology and theoretical understanding of devices. \*NEW--Expanded description of silicon Czochralski growth, wafer production, and vapor phase epitaxy (Ch. 1). \*NEW--Clearer discussion of chemical bonding, energy band formation and hole transport (Chs. 2, 3 and 4). \*NEW--Consolidated coverage of p-n junction diodes and its applications (Ch. 5). \*NEW--Greatly expanded/updated discussion of device fabrication processes (Ch. 5 and appendices). \*NEW--Earlier discussion of MOS devices (Ch. complementary MOS field effect transistors (MOSFETs) in integrated circuits today. \*NEW--Major revision of chapter on Field Effect Transistors (Ch. 6)--Both in the underlying theory as well as discussion of a variety of short channel, high field and hot carrier effects in scaled, ultra-small MOSFETs. Includes extensive discussions of the current-voltage and capacitance-voltage characteristics of these devices--and the information that can be gleaned from such measurements. \*NEW--Updated chapter on Bipolar Junction Transistors (BJTs) (Ch. 7)--To reflect current technology. Describes higher-order effects (including the Kirk effect and Webster effect); discusses the Gummel-Poon model (which is more elaborate and physically more accurate than the Ebers-Moll model); and updates the fabrication aspects of BJTs. \*NEW--Consolidated coverage of optoelectronic devices in a single chapter (Ch. 8)--Brings the discussion of semiconductor lasers into the same chapter as LEDs and detectors \*Reflects the growing importance of optoelectronics. \*NEW--Updated coverage of integrated circuits (Ch. concerted shift to CMOS applications, such as logic and memory integrated circuits. \*NEW--A section on the insulated gate bipolar transistor (Ch. 11)--A device that is gradually supplanting the semiconductor-controlled rectifier. \*NEW--Real data--Wherever feasible, replaces idealized current-voltage and capacitance-voltage plots with real data.

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.

The papers included in this issue of ECS Transactions were originally presented in the symposium  $\zeta$  Nanotechnology General Session  $\zeta$ , held during the 213th meeting of The Electrochemical Society, in Phoenix, Arizona from May 18 to 23, 2008.

A practical reference for the clinical setting, Handbook of Anesthesia, 5th Edition puts key information at your fingertips. It's an ideal companion to Nurse Anesthesia, providing easy-access coverage of the subjects you look up most frequently, such as common diseases, common procedures, drugs, and protocols. It also includes the most current information related to perioperative management and anesthetic care considerations for a wide variety of surgical procedures. Written by leading CRNA experts John Nagelhout and Karen Plaus, this compact handbook provides the up-to-date clinical and drug information you'll use in daily practice \*This book is packed with information, is easy to read and easy to navigate. The clinical information is authentic, and reads like the work of authors with clinical experience and wisdom\* Reviewed by British Journal of Anaesthesia Date: Nov 2014 Convenient, quick-reference format is organized into three parts: common diseases, common procedures, and drugs. Disease monographs include definition, incidence and prevalence, pathophysiology, laboratory results, clinical manifestations, treatment, anesthetic considerations, and prognosis. Monographs of surgical procedures include a brief description, preoperative assessments (including health history, physical assessment, and patient preparation), anesthetic technique, perioperative management, and postoperative implications. Drug monographs include generic names, trade names, indications, anesthetic considerations, pharmacokinetics, dosages, and adverse effects. Expert CRNA authors provide the current clinical information you'll use in daily practice. UPDATED disease information includes the latest treatment and anesthetic considerations. NEW drug information includes interactions and effects of key new drugs with common anesthetic agents. NEW surgical procedures include up-to-date information on new minimally invasive and laparoscopic procedures. NEW appendices include drug, laboratory, and pediatric tables for easy reference.

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