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Basic Principles

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Fourth Edition

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Fundamentals of Semiconductors Peter YU, Manuel

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innovative and integral new book on MOSFETs design technology **The IGBT Device** B. Jayant Baliga, 2022-11-25 The IGBT Device Physics Design and Applications of the Insulated Gate Bipolar Transistor Second Edition provides 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 IGBT device has proven 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 gasoline powered motor vehicles and energy saving compact fluorescent light bulbs The book presents recent applications in plasma displays flat screen TVs and electric power transmission systems alternative energy systems and energy storage but it is also used in all renewable energy generation systems including solar and wind power This book is the first available on the applications of the IGBT It will unlock IGBT for a new generation of engineering applications making it essential reading for a wide audience of electrical and design engineers as well as an important publication for semiconductor specialists Presents essential design information for applications engineers utilizing IGBTs in the consumer industrial lighting transportation medical and renewable energy sectors Teaches the methodology for the design of IGBT chips including edge terminations cell topologies gate layouts and integrated current sensors Covers 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 this is the first book to highlight the key role of the IGBT in enabling electric vehicles and renewable energy systems with global impacts on climate change **Physics of Semiconductor Devices** Massimo Rudan, 2014-12-11 This book describes the basic physics of semiconductors including the hierarchy of transport models and connects the theory with the functioning of actual semiconductor devices Details are worked out carefully and derived from the basic physics while keeping the internal coherence of the concepts and explaining various levels of approximation Examples are based on silicon due to its industrial importance Several chapters are included that provide the reader with the quantum mechanical concepts necessary for understanding the transport properties of crystals The behavior of crystals incorporating a position dependent impurity distribution is described and the different hierarchical transport models for semiconductor devices are derived from the Boltzmann transport equation to the hydrodynamic and drift diffusion models The transport models are then applied to a detailed description of the main semiconductor device architectures bipolar MOS The final chapters are devoted to the description of some basic fabrication steps and to measuring methods for the semiconductor device parameters **Principles of Semiconductor Devices** Sima Dimitrijevic, 2012 The dimensions of modern semiconductor devices are reduced to the point where classical semiconductor theory including the concepts of continuous particle concentration and continuous current becomes questionable Further questions relate to two dimensional transport in the most important field effect devices and one dimensional transport in nanowires and carbon nanotubes Designed for upper level undergraduate and graduate courses Principles of Semiconductor Devices Second Edition presents

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Selected Solutions for Semiconductor Devices S. M. Sze, 1985

PHYSICS OF SEMICONDUCTOR DEVICES, 3RD ED S. M. Sze, Kwok K. Ng, 2008-06 Market_Desc Design Engineers Research Scientists Industrial and Electronics Engineering Managers Graduate Students Special Features Completely updated with 30 50% revisions Will include worked examples and end of the chapter problems with a solutions manual First edition was the most cited work in contemporary engineering and applied science publications over 12000 citations since 1969 About The Book This classic reference provides detailed information on the underlying physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices It integrates nearly 1 000 references to important original research papers and review articles and includes more than 650 high quality technical illustrations and 25 tables of material parameters for device analysis

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Semiconductor Physical Electronics Sheng S. Li, 2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamental solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate

students in electrical engineering. However, many students from other disciplines and backgrounds such as chemical engineering, materials science, and physics have also taken this course sequence and will be interested in the material presented herein. This book may also serve as a general reference for device engineers in the semiconductor industry. The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices. The main subjects covered include crystal structures, lattice dynamics, semiconductor statistics, energy band theory, excess carrier phenomena, and recombination mechanisms; carrier transport and scattering mechanisms; optical properties; photoelectric effects; metal semiconductor devices; the p-n junction diode; bipolar junction transistor; MOS devices; photonic devices; quantum effect devices; and high speed III-V semiconductor devices. The text presents a unified and balanced treatment of the physics of semiconductor materials and devices. It is intended to provide physicists and materials scientists with more device backgrounds and device engineers with a broader knowledge of fundamental solid state physics.

Physics of Optoelectronic Devices, Solutions Manual Shun Lien Chuang, 1997-08-22. Emphasizes the theory of semiconductor optoelectronic devices, demonstrating comparisons between theoretical and experimental results. Presents such important topics as semiconductor heterojunctions and band structure calculations near the band edges for bulk and quantum well semiconductors. Details semiconductor lasers including double heterostructure stripe geometry gain guided semiconductor distributed feedback and surface emitting. Systematically investigates high speed modulation of semiconductor lasers using linear and nonlinear gains. Features new subjects such as the theories on the band structures of strained semiconductors and strained quantum well lasers. Covers key areas behind the operation of semiconductor lasers, modulators, and photodetectors. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Solutions Manual for Principles of Semiconductor Devices Sima Dimitrijević, 2011-03. Gallium Nitride And Silicon Carbide Power Devices B. Jayant Baliga, 2016-12-12. During the last 30 years, significant progress has been made to improve our understanding of gallium nitride and silicon carbide device structures, resulting in experimental demonstration of their enhanced performances for power electronic systems. Gallium nitride power devices made by the growth of the material on silicon substrates have gained a lot of interest. Power device products made from these materials have become available during the last five years from many companies. This comprehensive book discusses the physics of operation and design of gallium nitride and silicon carbide power devices. It can be used as a reference by practicing engineers in the power electronics industry and as a textbook for a power device or power electronics course in universities.

Solutions Manual for ULSI Devices C. Y. Chang, S. M. Sze, 2000.

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