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Basic Principles

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Fourth Edition

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Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2007-05-08 *Physics of Semiconductor Devices* covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described *Physics of Semiconductor Devices* contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner

The IGBT Device B. Jayant Baliga, 2022-11-25 The IGBT Device Physics Design and Applications of the

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Fundamentals Of Solid-state Electronics: Solution Manual Chih Tang Sah,1996-09-30 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

Solutions Manual Robert F. Pierret,1996

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 *Analysis and Design of MOSFETs* Juin Jei Liou, Adelmo Ortiz-Conde, Francisco Garcia-Sanchez, 2012-12-06 Analysis and Design of MOSFETs Modeling Simulation and Parameter Extraction is the first book devoted entirely to a broad spectrum of analysis and design issues related to the semiconductor device called metal oxide semiconductor field effect transistor MOSFET. These issues include MOSFET device physics modeling numerical simulation and parameter extraction. The discussion of the application of device simulation to the extraction of MOSFET parameters such as the threshold voltage effective channel lengths and series resistances is of particular interest to all readers and provides a valuable learning and reference tool for students researchers and engineers. Analysis and Design of MOSFETs Modeling Simulation and Parameter Extraction extensively referenced and containing more than 180 illustrations is an innovative and integral new book on MOSFETs design technology.

Modern Silicon Carbide Power Devices B Jayant Baliga, 2023-09-18 Silicon Carbide power devices are being increasingly adopted for many applications such as electric vehicles and charging stations. There is a large demand for a resource to learn and understand the basic physics of operation of these devices to create engineers with in depth knowledge about them. This unique compendium provides a comprehensive design guide for Silicon Carbide power devices. It systematically describes the device structures and analytical models for computing their characteristics. The device structures included are the Schottky diode JBS rectifier power MOSFET JBSFET IGBT and BiDFET. Unique structures that address achieving excellent voltage blocking and on resistance are emphasized. This useful textbook and reference innovations for achieving superior high frequency operation and highlights manufacturing technology for the devices. The book will benefit professionals academics researchers and graduate students in the fields of electrical and electronic engineering circuits and systems semiconductors and energy studies.

Physics of Photonic Devices Shun Lien Chuang, 2009-01-20 The most up to date book available on the physics of photonic devices. This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices. New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells. It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers. Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere. Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors. Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an

indispensable tool for researchers working in this rapidly growing field *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 **Fundamentals of Semiconductors** Peter YU, Manuel Cardona, 2005-03-23 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters Advanced High Voltage Power Device Concepts B. Jayant Baliga, 2011-09-21 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

Fundamentals of Solid-state Electronics Chih-Tang Sah, 1996 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

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

Modern Semiconductor Devices for Integrated Circuits Chenming Hu, 2010 For courses in semiconductor devices Prepare your students for the semiconductor device technologies of today and tomorrow Modern Semiconductor Devices for Integrated Circuits First Edition introduces students to the world of modern semiconductor devices with an emphasis on integrated circuit applications Written by an experienced teacher researcher and expert in industry practices this succinct and forward looking text is appropriate for both undergraduate and graduate students and serves as a suitable reference text for practicing engineers

Semiconductor Device Physics and Simulation J.S. Yuan, Juin Jei Liou, 1998-05-31 The advent of the microelectronics technology has made ever increasing numbers of small devices on a same chip The rapid emergence of ultra large scaled integrated ULSI technology has moved device dimension into the sub quarter micron regime and put more than 10 million transistors on a single chip While traditional closed form analytical models furnish useful intuition into how semiconductor devices behave they no longer provide consistently accurate results for all modes of operation of these very small devices The reason is that in such devices various physical mechanisms affect the device performance in a complex manner and the conventional assumptions i e one dimensional treatment low level injection quasi static approximation etc employed in developing analytical models become questionable Thus the use of numerical device simulation becomes important in device modeling Researchers and engineers will rely even more on device simulation for device design and analysis in the future This book provides comprehensive coverage of device simulation and analysis for various modern semiconductor devices It will serve as a reference for researchers engineers and students who require in depth up to date information and understanding of semiconductor device

physics and characteristics The materials of the book are limited to conventional and mainstream semiconductor devices photonic devices such as light emitting and laser diodes are not included nor does the book cover device modeling device fabrication and circuit applications Nanoscale Device Physics Sandip Tiwari,2017 The primary advanced textbook for the teaching of science and engineering of nanoscale devices as used in the semiconductor electronics magnetics optics and electromechanics industry *Physics of semiconductor devices [electronic book]*. S. M. Sze,2007 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 In this third edition all major topics of contemporary interests will be either be added or expanded It will include problems and examples as well as a solutions manual Technical Books & Monographs United States. Department of Energy,

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