Optical Processes in Semiconductors (Solid state physical electronics series)

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Lingsheng Yao

Semiconductor Electronics Prentice Hall Electrical Engineering Series Solid State Physical Electronics Series: Solid State Physical Electronics Aldert Van der Ziel, 1961 Solid State Electronic Devices Ben G. Streetman, 1980

The Physics of Submicron Semiconductor Devices Harold L. Grubin, David K. Ferry, C. Jacoboni, 2013-11-11 The papers contained in the volume represent lectures delivered as a 1983 NATO ASI held at Urbino Italy The lecture series was designed to identify the key submicron and ultrasubmicron device physics transport materials and contact issues Nonequilibrium transport quantum transport interfacial and size constraints issues were also highlighted The ASI was supported by NATO and the European Research Office H L Grubin D K Ferry C Jacoboni v CONTENTS MODELLING OF SUB MICRON DEVICES 1 E Constant BOLTZMANN TRANSPORT EQUATION 33 K Hess TRANSPORT AND MATERIAL CONSIDERATIONS FOR SUBMICRON DEVICES 45 H L Grubin EPITAXIAL GROWTH FOR SUB MICRON STRUCTURES 179 C E C Wood INSULATOR SEMICONDUCTOR INTERFACES 195 C W Wilms en THEORY OF THE ELECTRONIC STRUCTURE OF SEMICONDUCTOR SURFACES AND INTERFACES 223 C Calandra DEEP LEVELS AT COMPOUND SEMICONDUCTOR INTERFACES 253 W Monch ENSEMBLE MONTE CARLO TECHNIQUES 289 C Jacoboni NOISE AND DIFFUSION IN SUBMICRON STRUCTURES 323 L Reggiani SUPERLATTICES 361 K Hess SUBMICRON LITHOGRAPHY 373 C D W Wilkinson and S P Beaumont OUANTUM EFFECTS IN DEVICE STRUCTURES DUE TO SUBMICRON CONFINEMENT IN ONE DIMENSION 401 B D McCombe vii viii CONTENTS PHYSICS OF HETEROSTRUCTURES AND HETEROSTRUCTURE DEVICES 445 P J Price CORRELATION EFFECTS IN SHORT TIME NONS TAT I ONARY TRANSPORT 477 J J Niez DEVICE DEVICE INTERACTIONS 503 D K Ferry QUANTUM TRANSPORT AND THE WIGNER FUNCTION 521 G J Iafrate FAR INFRARED MEASUREMENTS OF VELOCITY OVERSHOOT AND HOT ELECTRON DYNAMICS IN SEMICONDUCTOR DEVICES 577 S J Allen Jr Semiconductor Devices and Integrated Electronics A. G. Milnes, 2012-12-06 For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications Such topics are covered in specialized monographs numbering many hun dreds but the voluminous nature of this literature limits access for students This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level The edu cational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has intro duced the concepts of rectification amplification oscillators modulation and logic and SWitching circuits The book should also be of value to professional engineers and physicists because of both the information included and the de tailed guide to the literature given by the references The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels frequency speed size and cost are discussed The text also briefly

mentions how devices are used and presents circuits and comments on representative applications. Thus the book seeks a balance be tween the extremes of device physics and circuit design **Classed Subject Catalog Engineering Societies** The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It explores the emerging fields of sensors nanotechnologies and biological effects Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world's foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it will continue to be a platform to launch the next wave of advancements The Handbook's latest incarnation features a

protective slipcase which helps you stay organized without overwhelming your bookshelf It is an attractive addition to any collection and will help keep each volume of the Handbook as fresh as your latest research Electrons in Solids 2e Richard Bube, 2012-12-02 Electrons in Solids Second Edition An Introductory Survey introduces the reader to electrons in solids and covers topics ranging from particles and waves to the free electron model energy bands and junctions Optical and electrical properties are also discussed along with magnetic properties. The wavelike properties of all of matter are chosen as an integrating theme into which to weave such themes as crystal lattice vibrations with their effect on electron mobility and electrical and thermal conductivity electromagnetic waves with their effect on optical reflection and absorption and electronic transport in solids with its dependence on the wavelike properties of electrons This book is comprised of 11 chapters and begins with an overview of particles and waves together with classical views of electrons light and energy The general properties of waves are then discussed with particular reference to traveling waves standing waves transverse waves and longitudinal waves Lattice waves light waves and matter waves are also considered The reader is also introduced to wave equations boundary conditions and general wave properties The remaining chapters are devoted to optical electrical and magnetic properties as well as junctions including metal metal junctions metal semiconductor junctions and metal semiconductor junctions This monograph is intended for undergraduates and first year graduate students with a background primarily in materials science metallurgy or one of the other engineering disciplines
Introduction to Applied Solid **State Physics** R. Dalven, 2012-12-06 In addition to the topics discussed in the First Edition this Second Edition contains introductory treatments of superconducting materials and of ferromagnetism I think the book is now more balanced because it is divided perhaps 60% 40% between devices of all kinds and materials of all kinds For the physicist interested in solid state applications I suggest that this ratio is reasonable I have also rewritten a number of sections in the interest of hopefully increased clarity The aims remain those stated in the Preface to the First Edition the book is a survey of the physics of a number of solid state devices and ma terials Since my object is a discussion of the basic ideas in a number of fields I have not tried to present the state of the art especially in semi conductor devices Applied solid state physics is too vast and rapidly changing to cover completely and there are many references available to recent developments For these reasons I have not treated a number of interesting areas Among the lacunae are superiattices heterostructures compound semiconductor devices ballistic transistors integrated optics and light wave communications Suggested references to those subjects are given in an appendix I have tried to cover some of the recent revolutionary developments in superconducting materials

Subject Catalog Library of Congress,1975 Fundamentals of Power Semiconductor Devices B. Jayant Baliga,2010-04-02 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 Advances in Imaging and Electron Physics Peter W.

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Microelectronics Jerry C. Whitaker, 2018-10-03 When it comes to electronics demand grows as technology shrinks From consumer and industrial markets to military and aerospace applications the call is for more functionality in smaller and smaller devices Culled from the second edition of the best selling Electronics Handbook Microelectronics Second Edition presents a summary of the current state of microelectronics and its innovative directions This book focuses on the materials devices and applications of microelectronics technology It details the IC design process and VLSI circuits including gate arrays programmable logic devices and arrays parasitic capacitance and transmission line delays Coverage ranges from thermal properties and semiconductor materials to MOSFETs digital logic families memory devices microprocessors digital to analog and analog to digital converters digital filters and multichip module technology Expert contributors discuss applications in machine vision ad hoc networks printing technologies and data and optical storage systems. The book also includes defining terms references and suggestions for further reading This edition features two new sections on fundamental properties and semiconductor devices With updated material and references in every chapter Microelectronics Second Edition is an essential reference for work with microelectronics electronics circuits systems semiconductors logic design and microprocessors Irregular Serials & Annuals ,1976 The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer's Handbook provides

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