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Optical Processes in Semiconductors (Solid state physical electronics series)

Pankove, Jacques I.

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Semiconductor Electronics Prentice Hall Electrical
Engineering Series Solid State Physical Electronics
Series

Richard Bube



Semiconductor Electronics Prentice Hall Electrical Engineering Series Solid State Physical Electronics Series:

Solid State Physical Electronics Aldert Van der Ziel, 1958 Problems after each chapter *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 QUANTUM 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 NONSTATIONARY 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 Classed Subject Catalog Engineering Societies Library, 1968 **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 hundreds 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 educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced 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 detailed 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 between the extremes of device physics and circuit design *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 materials 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 semiconductor 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 superlattices 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 **Advances in Imaging and Electron Physics** Peter W. Hawkes,2007-08-22

Advances in Imaging and Electron Physics merges two long running serials *Advances in Electronics and Electron Physics* and *Advances in Optical and Electron Microscopy* This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography

image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains *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 Subject Catalog Library of Congress,1975 *Fundamentals of Solid State Engineering* Manijeh Razeghi,2018-08-21 Provides a multidisciplinary introduction to quantum mechanics solid state physics advanced devices and fabrication Covers wide range of topics in the same style and in the same notation Most up to date developments in semiconductor physics and nano engineering Mathematical derivations are carried through in detail with emphasis on clarity Timely application areas such as biophotonics bioelectronics Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1967 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December *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 the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references *Pure and Applied Science Books, 1876-1982* ,1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes *A Series Catalog* Richard Abel & Company,1973 **The National Union Catalogs, 1963-** ,1964 *American Book Publishing Record* ,1988 *Introduction to Applied Solid State Physics* Richard Dalven,2012-12-06 The aim of this book is a discussion at the introductory level of some applications of solid state physics The book evolved from notes written for a course offered three times in the Department of Physics of the University of California at Berkeley The objects of the course were a to broaden the knowledge of graduate students in physics especially those in solid state physics b to provide a useful course covering the physics of a variety of solid state devices for students in several areas of physics c to indicate some areas of research in applied solid state physics To achieve these ends this book is designed to be a survey of the physics of a number of solid state devices As the italics indicate the key words in this description are physics and survey Physics is a key word because the book stresses the basic qualitative physics of the applications in enough depth to explain the essentials of how a device works but not deeply enough to allow the reader to design one The question emphasized is how the solid state physics of the application results in the basic useful property of the device An example is how the physics of the tunnel diode results in a negative dynamic resistance Specific circuit applications of devices are mentioned but not emphasized since expositions are available in the electrical engineering textbooks given as references

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