



Jacques I. Pankove

**OPTICAL  
PROCESSES IN  
SEMICONDUCTORS**

# Optical Processes In Semiconductors Dover S On Physics

**RM Cervero**

## **Optical Processes In Semiconductors Dover S On Physics:**

*Optical Processes in Semiconductors* Jacques I. Pankove, 1975-01-01 Based on a series of lectures at Berkeley 1968 1969 this is the first book to deal comprehensively with all of the phenomena involving light in semiconductors The author has combined for the graduate student and researcher a great variety of source material journal research and many years of experimental research adding new insights published for the first time in this book Coverage includes energy states in semiconductors and their perturbation by external parameters absorption relationships between optical constants spectroscopy radiative transitions nonradiative recombination processes in pn junctions semiconductor lasers interactions involving coherent radiation photoelectric emission photovoltaic effects polarization effects photochemical effects effect of traps on luminescence and reflective modulation The author has presented the subject in a manner which couples readily to physical intuition He introduces new techniques and concepts including nonradiative recombination effects of doping on optical properties Franz Keldysh effect in absorption and emission reflectance modulation and many others Dr Pankove emphasizes the underlying principle that can be applied to the analysis and design of a wide variety of functional devices and systems Many valuable references illustrative problems and tables are also provided here

### **Silicon-based**

**Microphotonics: from Basics to Applications** Società italiana di fisica, 1999 The evolution of Si based optoelectronics has been extremely fast in the last few years and it is predicted that this growth will still continue in the near future The aim of the volume is to present different Si based luminescing materials as porous silicon rare earth doped silicon Si nanocrystals silicides Si based multilayers and silicon germanium alloy or superlattice structures The different devices needed for an all Si based optoelectronics are treated ranging from light sources to waveguides from amplifiers and modulators to detectors Both the very basic treatments as well as applications to real prototype devices and integration in an optical integrated circuit are presented Several issues are highlighted the problem of electrical transport in low dimensional Si systems the possibility of gain in Si based systems the low modulation speed of Si based LEDs The book gives a fascinating picture of the state of the art in Si microphotonics and a perspective on what one can expect in the near future

### **Internal Photoemission**

**Spectroscopy** Valeri V. Afanas'ev, 2010-07-07 The monographic book addresses the basics of the charge carrier photoemission from one solid to another the internal photoemission IPE and different spectroscopic applications of this phenomenon to solid state heterojunctions This is the first book in the field of IPE which complements the conventional external photoemission spectroscopy by analysing interfaces separated from the sample surface by a layer of a different solid or liquid IPE is providing the most straightforward and therefore reliable information regarding the energy spectrum of electron states at interfaces At the same time the method provides the unique capability of analysing the heterostructures relevant to the modern micro and nano electronic devices as well as new materials involved in their design and fabrication In addition to the discussion of fundamental physical and technical aspects of IPE spectroscopic applications several hot topics

are addressed. These include development of new insulating materials for advanced Si MOS technology, both high  $k$  gate insulators and low  $k$  dielectrics for interconnect insulation, metal gate materials, development of heterostructures based on high mobility semiconductors, etc. Thanks to a considerable activity in this field over the last few years, the recent results concerning band structure of most important interfaces involving novel materials can now be documented. First complete description of the internal photoemission phenomena. A practical guide to internal photoemission measurements. Describes reliable energy barrier determination procedures. Surveys trap spectroscopy methods applicable to thin insulating layers. Provides an overview of the most recent results on band structure of high permittivity insulating materials and their interfaces. Contains a complete collection of reference data on interface band alignment for wide bandgap insulating materials in contact with metals and semiconductors. *Comprehensive Semiconductor Science and Technology*, 2011-01-28. Semiconductors are at the heart of modern living. Almost everything we do, be it work, travel, communication, or entertainment, all depend on some feature of semiconductor technology. *Comprehensive Semiconductor Science and Technology* Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study, make, and exploit semiconductors. Previous attempts at this achievement have been abbreviated and have omitted important topics. Written and Edited by a truly international team of experts, this work delivers an objective yet cohesive global review of the semiconductor world. The work is divided into three sections. The first section is concerned with the fundamental physics of semiconductors, showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size. Throughout this section there is an emphasis on the full understanding of the underlying physics. The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity, nearly defect free bulk and epitaxial materials. The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us. Provides a comprehensive global picture of the semiconductor world. Each of the work's three sections presents a complete description of one aspect of the whole. Written and Edited by a truly international team of experts. *Fundamentals of Photonics* Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04. *Fundamentals of Photonics* A complete, thoroughly updated, full color third edition. *Fundamentals of Photonics* Third Edition is a self-contained and up-to-date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of light and matter. Presented at increasing levels of complexity, preliminary sections build toward more advanced topics such as Fourier optics and holography, photonic crystal optics, guided wave and fiber optics, LEDs and lasers, acousto optic and electro optic devices, nonlinear optical devices, ultrafast optics, optical interconnects, and switches, and

optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated *What is What in the Nanoworld* Victor E. Borisenko, Stefano Ossicini, 2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A representative collection of fundamental terms and definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology

*LED Lighting* Malvin Carl Teich, 2025-04-14 LED Lighting is a self contained and introductory level book featuring a blend of theory and applications that thoroughly covers this important interdisciplinary area Building on the underlying fields of optics photonics and vision science it comprises four parts PART I is devoted to fundamentals The behavior of light is described in terms of rays waves and photons Each of these approaches is best suited to a particular set of applications The properties of blackbody radiation thermal light and incandescent light are derived and explained The essentials of semiconductor physics are set forth including the operation of junctions and heterojunctions quantum wells and quantum dots and organic and perovskite semiconductors PART II deals with the generation of light in semiconductors and details the operation and properties of III V semiconductor devices MQWLEDs microLEDs quantum dot devices QLEDs WQLEDs organic semiconductor devices OLEDs SMOLEDs PLEDs WOLEDs and perovskite devices PeLEDs PPeLEDs QPeLEDs PeWLEDs PART III focuses on vision and the perception of color as well as on colorimetry It delineates radiometric and photometric quantities as well as various measures of luminous efficacy and efficiency It also elucidates the significance of commonly used LED lighting metrics such as the color rendering index CRI color temperature CT correlated color temperature CCT and chromaticity diagram PART IV is devoted to LED lighting focusing on its history and salutary features and on how this modern form of illumination is deployed It describes the principal components used in LED lighting including phosphor conversion LEDs PCLEDs for generating cool and warm white light chip on board COB devices color mixing LEDs LED filaments retrofit LED lamps hybrid devices LED luminaires and OLED light panels It concludes with a discussion of smart and connected lighting that reviews plant centric lighting and highlights the roles of gamma and

circadian brain rhythms in human centric lighting Finally the performance metrics for traditional and LED light sources are summarized Each chapter contains practical examples highlighted equations color coded figures and an extensive bibliography Handbook of Optics, Third Edition Volume IV: Optical Properties of Materials, Nonlinear Optics, Quantum Optics (set) Michael Bass,Casimer DeCusatis,Jay M. Enoch,Vasudevan Lakshminarayanan,Guifang Li,Carolyn

MacDonald,Virendra N. Mahajan,Eric Van Stryland,2009-10-06 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world's most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume IV covers optical properties of materials nonlinear optics and quantum optics Handbook of Optics Optical Society of America,2000-10-27 A new volume in the field's bestselling optics reference an entirely new opus focusing exclusively on fiber optics Contains an ultra handy comprehensive index to all four Handbook of Optics volumes Proceedings of the 24th Intersociety Energy Conversion Engineering Conference ,1989 Handbook of Optics, Volume IV Optical Society of America,2000-11-17 A new volume in the field's bestselling optics reference an entirely new opus focusing exclusively on fiber optics Contains an ultra handy comprehensive index to all four Handbook of Optics volumes

## **II-VI Semiconductor Materials and their Applications**

MariaC. Tamargo,2018-05-04 II VI Semiconductor Materials and Their Applications deals with II VI compound semiconductors and the status of the two areas of current optoelectronics applications blue green emitters and IR detectors Specifically the growth characterization materials and device issues for these two applications are described Emphasis is placed on the wide bandgap emitters where much progress has occurred recently The book also presents new directions that have potential future applications in optoelectronics for II VI materials In particular it discusses the status of dilute magnetic semiconductors for many optical and electromagnetic devices nonlinear optical properties photorefractive effects and new materials and physics phenomena such as self organized low dimensional structures II VI Semiconductor Materials and Their Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses

**Tutorial Lectures in Electrochemical Engineering and Technology** R. C. Alkire,1981 **Copper Zinc Tin Sulfide-Based Thin-Film Solar Cells** Kentaro Ito,2014-12-11 Beginning with an overview and historical background of Copper Zinc Tin Sulphide CZTS technology subsequent chapters cover properties of CZTS thin films different preparation methods of CZTS thin films a comparative study of CZTS and CIGS solar cell computational approach and future

applications of CZTS thin film solar modules to both ground mount and rooftop installation The semiconducting compound CZTS is made up earth abundant low cost and non toxic elements which make it an ideal candidate to replace Cu In Ga Se2 CIGS and CdTe solar cells which face material scarcity and toxicity issues The device performance of CZTS based thin film solar cells has been steadily improving over the past 20 years and they have now reached near commercial efficiency levels 10% These achievements prove that CZTS based solar cells have the potential to be used for large scale deployment of photovoltaics With contributions from leading researchers from academia and industry many of these authors have contributed to the improvement of its efficiency and have rich experience in preparing a variety of semiconducting thin films for solar cells Materials and Devices for Silicon-Based Optoelectronics: Volume 486 Albert Polman,S. Coffa,Richard Soref,1998-07 Presents 57 contributions from the fall 1997 symposium Some of the most important conclusions to emerge from the papers are Si based visible and infrared light provide competing and complementary methods to overcome poor performance of Si as a light emitter the silicon on insulator Si SiO<sub>2</sub> Si systems are ideal for highly confined waveguides and microphotonics components and for the fabrication of quantum wells and resonant tunneling structures efficient integrated modulators and optically pumped amplifiers hold promise for Si compatible optoelectronics SiGe quantum wells Ge films on buffered Si and SnGe alloys upon Si could be used for efficient near infrared light detection once dark current problems are solved and finally new monolithic approaches to the engineering of the optical approaches of Si are allowing new applications and market space for low cost Si compatible integrated optoelectronics and microphotonics Annotation copyrighted by Book News Inc Portland OR **Optical Engineering** ,1982 Semiconductor Heterojunctions and Nanostructures Omar Manasreh,2005-05-13 Publisher Description Optoelectronics Jasprit Singh,1996 Aimed at graduate students in electrical engineering this text provides a broad understanding of the rapidly growing field of optoelectronics An integrated approach is used covering topics in applied optics physics of optical response and semiconductor optoelectronic devices

*Nanomaterials (ICNSC)* Zainal Arifin Ahmad,M.A. Yarmo,Fauziah Abdul Aziz,Meor Yusoff Meor Sulaiman,Badrol Ahmad,Khairul Nizar Ismail,Abdul Rashid Jamaludin,Muhammad Azwadi Sulaiman,Mohd Fariz Ab Rahman,2011-10-24 Synthesis and Characterization Selected peer reviewed papers from the 2011 International Conference on Nanomaterials Synthesis and Characterization ICNSC 2011 July 4 5 2011 Selangor Malaysia Scientific and Technical Books in Print,1972

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