

# SEMICONDUCTORS AND SEMIMETALS

## VOLUME 22

### Lightwave Communications Technology



Volume Editor **W. T. Tsang**

**Part E**

**Integrated Optoelectronics**

# Semiconductors And Semimetals Volume 22 Lightwave Communications Technology Part E Integrated Optoelectronics

**Ming-Chiang Abraham Wu**



## **Semiconductors And Semimetals Volume 22 Lightwave Communications Technology Part E Integrated Optoelectronics:**

**Semiconductors and Semimetals**, 1985-06-03 Semiconductors and Semimetals      **Current Trends in Integrated Optoelectronics** Tien-Pei Lee, 1994 This compilation of review articles by leading experts presents clearly the trend in future optoelectronic devices It is clear that optoelectronic and photonic integration help to further improve high speed system capabilities and increase the total systems and network capacities with WDM technology The foundation of the integration technology is based on quantum well materials and advanced epitaxial growth and device processing techniques The integrated laser modulators multi wavelength laser arrays and OEIC receivers have demonstrated the feasibility of this technology but much work remains to be done to put such technology to practice      Photonic Devices Jia-ming Liu, 2009-06-11 Photonic devices lie at the heart of the communications revolution and have become a large and important part of the electronic engineering field so much so that many colleges now treat this as a subject in its own right With this in mind the author has put together a unique textbook covering every major photonic device and striking a careful balance between theoretical and practical concepts The book assumes a basic knowledge of optics semiconductors and electromagnetic waves Many of the key background concepts are reviewed in the first chapter Devices covered include optical fibers couplers electro optic devices magneto optic devices lasers and photodetectors Problems are included at the end of each chapter and a solutions set is available The book is ideal for senior undergraduate and graduate courses but being device driven it is also an excellent engineers reference      **Integrated Optoelectronics** Karl J. Ebeling, 2012-12-06 The English edition is based upon the second edition of the German version of the book The author would like to thank Mr A H Armstrong for providing the basic English manuscript of the text his critical reading and valuable comments Thanks are also due to Mrs A Demmer Mr J Matern Mrs B Titze and Mrs S Pfetsch for preparing the camera ready manuscript and the figures Springer Verlag has generously supported the project and cooperating with them has been a great pleasure Ulm April 1992 K J Ebeling Preface to the First German Edition This book is a comprehensive introduction to waveguide optics and photonics in semiconductor crystals Interest is centered on integrated optoelectronic devices for the transmission and processing of optical signals These optical communications engineering devices are becoming increasingly important for optical disk storage systems for optical chip chip interconnections and of course for optical fiber transmission and exchange      Physics of Photonic Devices Shun Lien Chuang, 2012-11-07 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 **Lightwave**

**Communications Technology: Semiconductor injection lasers, I-II**, 1985 MC-6 Radiation Effects on Fiber Optic Systems and Components, **Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set** Craig Hoffman, Ronald Driggers, 2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia's length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition's release corresponds nicely with the United Nations General Assembly's declaration of 2015 as the International Year of Light working in tandem to raise awareness about light's important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

*Optics News*, 1987 Includes a directory of members in one issue each year **Encyclopedia of Optical Engineering: Abe-Las, pages 1-1024** Ronald G. Driggers, 2003 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST ATe reference taylorandfrancis com **Optical Engineering**, 2003 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

**Tunable Single-wavelength Semiconductor Lasers** Ming-Chiang Abraham Wu, 1988 *Principles of Electronic Packaging* Donald P. Seraphim, Ronald Lasky, Che-Yu Li, 1989 **Integrierte Optoelektronik** Karl J. Ebeling, 2013-07-29 Aufgrund zunehmender Miniaturisierung optischer und elektro nischer Bauelemente bem ht man sich verst rkt diese Elementen te zu integrieren Analog zur raschen Entwicklung integrier ter Schaltkreise in der Mikroelektronik zeichnet sich eine hnliche Entwicklung in der Integrierten Optoelektronik ab Das Werk ist eine umfassende Darstellung der Wellenleiterop tik und Photonik in den Halbleitersystemen AlGaAs und In GaAsP Die Grundlagen der Wellenausbreitung und der optisch

elektrischen Wandlung in Laserdioden und Photodioden werden ausführlich behandelt. Der eingeführte einheitliche Formalismus wird benutzt, um aktuelle Entwicklungen eingehend zu diskutieren. Beispiele hierfür sind Halbleiterlaser mit Quantenstruktur, durchstimmbare Laserdioden, Photodioden mit innerer Verstärkung oder die monolithische Integration optischer und elektrischer Komponenten. Das Buch richtet sich an Studenten und in der Praxis stehende Ingenieure und Physiker, die sich mit integrierter Optik, optischer Nachrichtentechnik oder optischer Informationsverarbeitung befassen.

Vertical-Cavity Surface-Emitting Lasers Julian Cheng, Niloy K. Dutta, 2000-07-06. Since first coming into existence in the early 90s, the vertical cavity surface emitting laser (VCSEL) has made several quantum leaps in performance. The performance of VCSELs now exceeds that of edge emitting lasers in many respects and offers a superior optical beam and much easier monolithic integrability. As the VCSEL technology improves further and their number and variety multiply, their potential applications will likely expand at a rapid pace. *Vertical cavity Surface Emitting Lasers: Technology and Applications* addresses two main objectives. It provides the researcher and device engineer with a reference guide to understanding the physical principles as well as the practical design concepts of VCSELs. Furthermore, it provides the system designer or application engineer with a review of the properties of VCSELs and an overview of some of the applications in which the VCSEL has already played an important role. This book features contributions from prominent researchers in the field. *Optoelectronic Integration: Physics, Technology and Applications* Osamu Wada, 2013-11-27. As we approach the end of the present century, the elementary particles of light (photons) are seen to be competing increasingly with the elementary particles of charge (electrons, holes) in the task of transmitting and processing the insatiable amounts of information needed by society. The massive enhancements in electronic signal processing that have taken place since the discovery of the transistor elegantly demonstrate how we have learned to make use of the strong interactions that exist between assemblages of electrons and holes disposed in suitably designed geometries and replicated on an increasingly fine scale. On the other hand, photons interact extremely weakly amongst themselves and all photonic active circuit elements where photons control photons are presently very difficult to realise, particularly in small volumes. Fortunately, rapid developments in the design and understanding of semiconductor injection lasers coupled with newly recognized quantum phenomena that arise when device dimensions become comparable with electronic wavelengths have clearly demonstrated how efficient and fast the interaction between electrons and photons can be. This latter situation has therefore provided a strong incentive to devise and study monolithic integrated circuits which involve both electrons and photons in their operation. As chapter I notes, it is barely fifteen years ago since the first demonstration of simple optoelectronic integrated circuits were realised using  $\text{InGaAsP}$  compound semiconductors, these combined either a laser driver or photodetector preamplifier combination. Introduction to Semiconductor Integrated Optics Hans P. Zappe, 1995. This comprehensive book introduces semiconductors and integrated optics and provides in-depth derivations and analysis of key integrated optical components for more advanced study. The

author emphasizes practical application developing and explaining the concepts and techniques needed to understand the engineering issues and solve real world problems With its clear explanations and design examples the book provides experienced and budding engineers with the information necessary to design the structure and fabrication process of a semiconductor integrated optical device Invaluable for engineers and applied scientists in optics semiconductors R D engineers in communications sensors and medicine and graduate students Complete with 280 equations and 95 illustrations

*Subject Guide to Books in Print*, 1993      **Optoelectronic Signal Processing for Phased-array Antennas** K. B. Bhasin, 1988      **Electro-Optics Handbook** Ronald Waynant, Marwood Ediger, 2000-04-06 All inclusive opto electronics guide A valuable must have tool for electronic and optical engineers this Handbook is the only single volume tell it all guide to the use of optical devices and light in electronics systems Developed by a towering figure in the field this manual familiarizes you with UV VUV and X Ray lasers visible solid state semiconductor and infrared gas lasers FEL and ultrashort laser pulses visible and infrared optical materials infrared and imaging detectors optical fibers and fiber optic sensors holography laser spectroscopy and photochemistry high resolution lithography for optoelectronics and much more In this up to the minute edition you ll find new chapters on optical communications electro optic devices and high intensity optical fields in addition to extensively updated material throughout and abundant charts diagrams and data tables

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