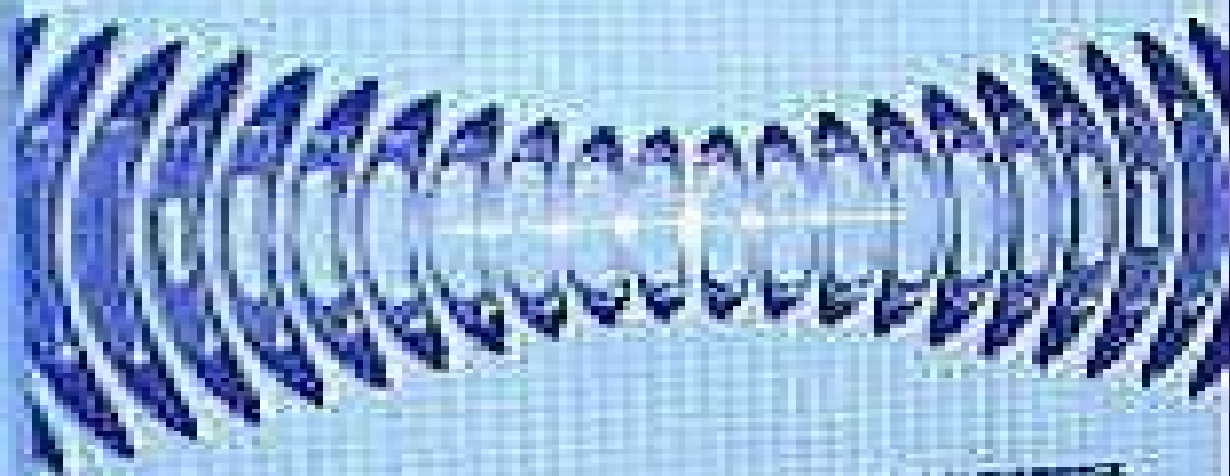


WAVES AND FIELDS IN OPTOELECTRONICS

HERMANN A. HAUS



ANALYTICAL, NUMERICAL, AND EXPERIMENTAL METHODS
IN THE THEORY OF OPTOELECTRONICS

Waves And Fields In Optoelectronics Prentice Hall Series In Solid State Physical Electronics

Inamuddin, Mohd Imran
Ahamed, Rajender Boddula, Tariq
Altalhi

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Optical Properties and Applications of Semiconductors Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Tariq Altalhi, 2022-07-18 Semiconductors with optical characteristics have found widespread use in evolving semiconductor photovoltaics where optical features are important. The industrialization of semiconductors and their allied applications have paved the way for optical measurement techniques to be used in new ways. Due to their unique properties, semiconductors are key components in the daily employed technologies in healthcare, computing, communications, green energy, and a range of other uses. This book examines the fundamental optical properties and applications of semiconductors. It summarizes the information as well as the optical characteristics and applicability of semiconductors through an in-depth review of the literature. Accomplished experts in the field share their knowledge and examine new developments.

FEATURES
Comprehensive coverage of all types of optical applications using semiconductors. Explores relevant composite materials and devices for each application. Addresses the optical properties of crystalline and amorphous semiconductors. Describes new developments in the field and future potential applications.

Optical Properties and Applications of Semiconductors is a comprehensive reference and an invaluable resource for engineers, scientists, academics, and industry R D teams working in applied physics.

Waves and Fields in Optoelectronics Hermann A. Haus, 1984 Maxwell's equations of isotropic media and some important identities. Reflection of plane waves from interfaces. Mirrors and interferometers. Fresnel diffraction in paraxial limit. Hermit Gaussian beams and their transformations. Optical fibers and guiding layers. Coupling of modes. Resonators and couplers. Distributed feedback structures. Acousto-optic modulators. Some nonlinear systems. Wave propagation in anisotropic media. Electro-optic modulators. Nonlinear optics. Optical detection.

Semiconductor Nanolasers Qing Gu, Yeshaiah Fainman, 2017-02-16 This unique resource explains the fundamental physics of semiconductor nanolasers and provides detailed insights into their design, fabrication, characterization, and applications. Topics covered range from the theoretical treatment of the underlying physics of nanoscale phenomena such as temperature-dependent quantum effects and active medium selection to practical design aspects including the multi-physics cavity design that extends beyond pure electromagnetic consideration, thermal management, and performance optimization and nanoscale device fabrication and characterization techniques. The authors also discuss technological applications of semiconductor nanolasers in areas such as photonic integrated circuits and sensing. Providing a comprehensive overview of the field, detailed design and analysis procedures, a thorough investigation of important applications, and insights into future trends, this is essential reading for graduate students, researchers, and professionals in optoelectronics, applied photonics, physics, nanotechnology, and materials science.

Power Beaming: History, Theory, And Practice Paul Jaffe, Tom Nugent, Bernd Strassner, Mitchell Szazynski, 2024-06-04 Power beaming is the ability to move energy without moving or employing mass between an energy input and energy output. It is an emerging technology that could reshape how we generate and distribute energy and how our

devices and autonomous systems are powered This comprehensive compendium provides the foundation needed for researchers technology developers and end users to understand the promise and challenges for power beaming By establishing a common nomenclature and conceptual approach to the analysis and assessment of power beaming systems this unique reference text provides a true status of advancements in the field and lays the groundwork for fruitful future research and applications

Brillouin Scattering Part 1 ,2022-06-24 Brillouin Scattering Volume 109 in the Semiconductors and Semimetal series marks the centenary of Leon Brillouin s seminal 1922 paper which provided a detailed theory of the effect that now bears his name Stimulated Brillouin Scattering SBS is the strongest third order optical nonlinearity and plays an important role in contemporary science and applications particularly lasers communications and fibre optics as well as playing a new role in experimental physics and the life sciences This volume provides a foundational perspective on Brillouin scattering starting with a historical review of Brillouin scattering the theory of SBS and the convergence between SBS and Optomechanics We then consider SBS in several different waveguide geometries including photonic crystal fibres integrated optics and superfluids From the leading researchers in the field Historical theoretical and scientific perspective Pedagogical

Nano-Optics for Enhancing Light-Matter Interactions on a Molecular Scale Baldassare Di Bartolo,John Collins,2012-12-04 This volume presents a considerable number of interrelated contributions dealing with the new scientific ability to shape and control matter and electromagnetic fields on a sub wavelength scale The topics range from the fundamental ones such as photonic metamaterials plasmonics and sub wavelength resolution to the more applicative such as detection of single molecules tomography on a micro chip fluorescence spectroscopy of biological systems coherent control of biomolecules biosensing of single proteins terahertz spectroscopy of nanoparticles rare earth ion doped nanoparticles random lasing and nanocoax array architecture The various subjects bridge over the disciplines of physics biology and chemistry making this volume of interest to people working in these fields The emphasis is on the principles behind each technique and on examining the full potential of each technique The contributions that appear in this volume were presented at a NATO Advanced Study Institute that was held in Erice Italy 3 18 July 2011 The pedagogical aspect of the Institute is reflected in the topics presented in this volume

Optical Transistor Fouad Sabry,2022-02-21 What Is Optical Transistor An optical transistor also known as an optical switch or a light valve is a device that switches or amplifies optical signals Light occurring on an optical transistor s input changes the intensity of light emitted from the transistor s output while output power is supplied by an additional optical source Since the input signal intensity may be weaker than that of the source an optical transistor amplifies the optical signal The device is the optical analog of the electronic transistor that forms the basis of modern electronic devices Optical transistors provide a means to control light using only light and has applications in optical computing and fiber optic communication networks Such technology has the potential to exceed the speed of electronics while conserving more power How You Will Benefit I Insights and validations about the following topics

Chapter 1 Optical transistor Chapter 2 Band gap Chapter 3 Photonics Chapter 4 Timeline of quantum computing and communication Chapter 5 Polariton Chapter 6 Pockels effect Chapter 7 Quantum network Chapter 8 Optical computing Chapter 9 Frequency comb Chapter 10 Photonic integrated circuit Chapter 11 Silicon photonics Chapter 12 Yoshihisa Yamamoto scientist Chapter 13 Single photon source Chapter 14 Exciton polariton Chapter 15 Jaynes Cummings Hubbard model Chapter 16 Linear optical quantum computing Chapter 17 Plasmonics Chapter 18 Integrated quantum photonics Chapter 19 Bose Einstein condensation of polaritons Chapter 20 Quantum dot single photon source Chapter 21 Quantum memory II Answering the public top questions about optical transistor III Real world examples for the usage of optical transistor in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of optical transistor technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of optical transistor

Solid State Electronic Devices Ben G. Streetman, 1990 **Physical Properties of Semiconductors** Charles M. Wolfe, Nick Holonyak, G. E. Stillman, 1989 **Reviews in Plasmonics 2015** Chris D. Geddes, 2016-01-22 Reviews in Plasmonics 2015 the second volume of the new book series from Springer serves as a comprehensive collection of current trends and emerging hot topics in the field of Plasmonics and closely related disciplines It summarizes the year's progress in surface plasmon phenomena and its applications with authoritative analytical reviews in sufficient detail to be attractive to professional researchers yet also appealing to the wider audience of scientists in related disciplines of Plasmonics Reviews in Plasmonics offers an essential source of reference material for any lab working in the Plasmonics field and related areas All academics bench scientists and industry professionals wishing to take advantage of the latest and greatest in the continuously emerging field of Plasmonics will find it an invaluable resource **Fiber Optics and Optoelectronics** Peter K. Cheo, 1990 *Quantum Mechanics* Herbert Kroemer, 1994 This widely anticipated book by a leading expert in the field is designed to meet the changing quantum mechanics needs of general and applied physicists involved in such areas as solid state research quantum electronics materials science etc This book uses new and less abstract ways to present formal concepts For electrical engineers in the semiconductor areas **Applications of Analog Integrated Circuits** Sidney Soclof, 1985 **American Book Publishing Record**, 1996 **Nonlinear Optical Communication Networks** Eugenio Iannone, 1998-03-25 What telecommunications professionals need to know about nonlinear optical communication systems This book responds to the need for a coherent approach to nonlinear optical communication systems It gives telecommunications researchers and engineers a handle on the unique problems presented by the proliferation of optical technologies in telecommunications in recent years and provides problem solving strategies for various network functions and operations The product of a collaborative effort by four well known researchers in telecommunications transmission systems this volume covers design basics network performance and state of the art system analysis tools and is

supplemented with hundreds of illustrations as well as appendices containing the necessary mathematical derivations It details Design principles of the network transmission layer with optical technologies and fiber nonlinearities in place Performance evaluation for a variety of optical transmission systems operating under nonlinear propagation regimes Local area networks regional networks and geographical networks their potential transmission capacity and possible problems Examples of effective design from the most promising nonlinear optical transmission systems The methodology for design and analysis of a generic system IEICE Transactions on Electronics ,1998 *Fiber Optics* Peter K. Cheo,Hartford Graduate Center,1985 *Journal of the Optical Society of America* ,1994 Choice ,1984 *Optics Letters* ,2004

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