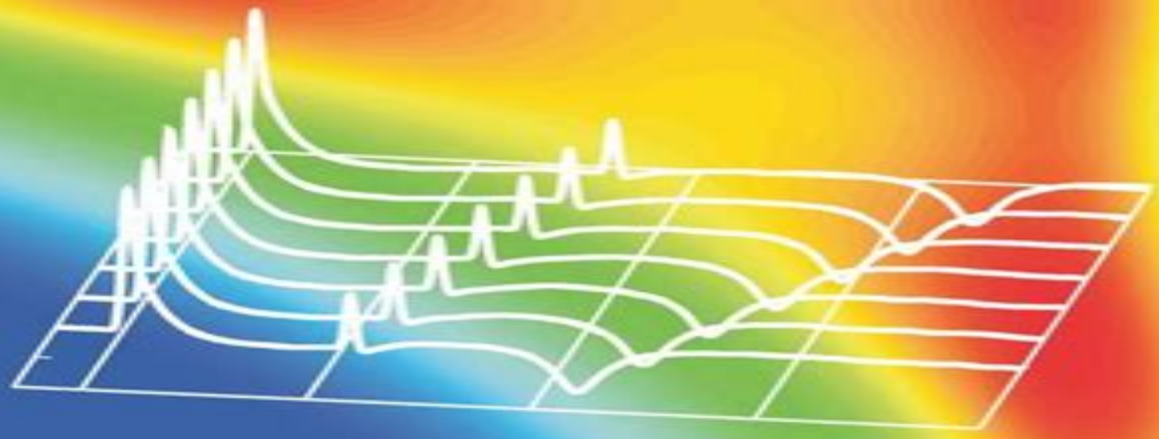

Torsten Meier · Peter Thomas · Stephan W. Koch

Coherent Semiconductor Optics

From Basic Concepts to Nanostructure Applications

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Coherent Semiconductor Optics From Basic Concepts To Nanostructure Applications

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Coherent Semiconductor Optics From Basic Concepts To Nanostructure Applications:

Coherent Semiconductor Optics Torsten Meier,Peter Thomas,Stephan W. Koch,2007-02-13 This book could not have been written without the extensive work of many diploma and Ph D students in our Theoretical Semiconductor Physics Group at the Philipps Universit at in Marburg They have contributed to the f damental understanding and to many applications in the area of coherent semiconductor optics The one dimensional tight binding model which is exclusively treated in the present book has been the basis of many of their diploma and Ph D theses The reader will nd references to their results and also their names as authors of the publications listed in the sections S gested Reading In particular the authors wish to thank Irina Kuznetsova who prepared a large number of the gures and recalculated the underlying data on the basis of the equations presented in this book in cases where parameters or presentation had to be changed and or optimized Someoftheproblems inparticular thoseconnectedtothemoreintrod tory chapters were solved by Swantje Horst and Joachim Kalden They made valuable suggestions for improved formulation of the problems and pointed out a number of hints we should give our readers in order to help them with the solutions Furthermore we wish to thank all our numerous collaborators together with whom we have performed research in the area of coherent semiconductor optics in the past and present for many valuable discussions In particular without the close cooperation between experiment and theory this research eld would not have advanced to the present level **Theory of Semiconductor Quantum Devices** Fausto Rossi,2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultrasmall space and time scales as well as of their semiclassical counterparts *Optical Techniques for Solid-State Materials Characterization* Rohit P. Prasankumar,Antoinette J. Taylor,2016-04-19 Over the last century numerous optical techniques have been developed to characterize materials giving insight into their optical electronic magnetic and structural properties and elucidating such diverse phenomena as high temperature superconductivity and protein folding Optical Techniques for Solid State Materials Characterization provides **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 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 Ill 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 **Terahertz and Mid Infrared Radiation** Mauro F. Pereira,Oleksiy Shulika,2011-02-26 Terahertz THz and Mid Infrared MIR radiation TERA MIR can be transmitted through nearly any material without causing biological harm Novel and rapid methods of detection can be created with devices operation in these spectral ranges allowing scanning for weapons detecting hidden explosives including plastic landmines controlling the quality of food and a host of other exciting applications This book focuses on mathematical and physical aspects of the field on unifying these two spectral domains THz and MIR with regard to common sources detectors materials and applications

and on key interdisciplinary topics The main THz and MIR source is the quantum cascade laser QCL Thus significant attention is paid to the challenge of turning this advanced technology into affordable commercial devices so as to exploit its enormous potential However other alternatives to THz QCLs are also presented e g sub terahertz imaging from avalanching GaAs bipolar transistors Josephson junctions as THz sources semiconductor materials for pulsed THz sources superconducting THz electronics with Josephson vortices In summary this book delivers a global picture of the state of the art in TERA MIR generation detection and applications **Nanophotonic Materials** Ralf B. Wehrspohn,Heinz-Siegfried Kitzerow,Kurt Busch,2008-09-08 Nanophotonic Materials Photonic Crystals Plasmonics and Metamaterials summarizes the work and results of a consortium consisting of more than 20 German research groups concentrated on photonics crystals research over the last seven years Illustrated throughout in full color the book provides an overview of these novel materials spanning the entire range from fundamentals to applications **Ultrafast Phenomena in Semiconductors and Nanostructure Materials XI and Semiconductor Photodetectors IV** Kong Thon Tsen,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *Optik und Photonik* Bahaa E. A. Saleh,Malvin Carl Teich,2020-04-30 Vollst ndig berarbeitete Neuauflage des ma geblichen Grundlagen Lehrbuchs zur Optik und Photonik umfassend berarbeitet und mit einem neuen Kapitel zur Metamaterialoptik erweitert Die Optik ist eines der ltesten und faszinierendsten Teilgebiete der Physik und fest in den Curricula des Physikstudiums verankert Sie besch ftigt sich mit der Ausbreitung von Licht und Ph nomenen wie Interferenz Brechung Beugung und optischen Abbildungen Die Photonik umfasst optische Ph nomene die prim r auf der Wechselwirkung von quantisiertem Licht und Materie beruhen und befasst sich mit dem Verst ndnis und der Entwicklung optischer Bauteile und Systeme wie etwa Lasern LEDs und photonischen Kristallen In bew hrter Weise gibt die vollst ndig berarbeitete und erweiterte Neuauflage des Saleh Teich eine Einf hrung in die Grundlagen der Optik und Photonik f r Studierende der Physik und verwandter Wissenschaften Ausf hrliche Erkl rungen rund 1000 Abbildungen und die zur quantitativen Durchdringung notwendige Mathematik erm glichen ein tiefes Verst ndnis aller Teilgebiete der klassischen und modernen Optik Umfassend und verst ndlich s mtliche Grundlagen der Optik und Photonik in einem Werk vereint Geschrieben von hervorragenden Didaktikern mit langer Lehrerfahrung optische Ph nomene und deren Physik stehen im Vordergrund der notwendige mathematische Apparat wird behutsam entwickelt berarbeitet und erweitert alle Kapitel wurden mit Blick auf noch bessere Verst ndlichkeit kritisch gepr ft und aktualisiert Komplett neu umfangreiches Kapitel zu Metamaterialoptik Optik und Photonik richtet sich an Bachelor und Master Studierende der Physik Materialwissenschaften und Ingenieurwissenschaften **Science** John Michels (Journalist),2009

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Coherent Semiconductor Optics From Basic Concepts To Nanostructure Applications**

In a global inundated with screens and the cacophony of fast connection, the profound power and emotional resonance of verbal art often diminish into obscurity, eclipsed by the regular barrage of sound and distractions. However, nestled within the lyrical pages of **Coherent Semiconductor Optics From Basic Concepts To Nanostructure Applications**, a interesting function of literary brilliance that impulses with organic feelings, lies an remarkable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this interesting opus instructions visitors on a mental odyssey, gently revealing the latent possible and profound influence stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect its captivating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Coherent Semiconductor Optics From Basic Concepts To Nanostructure Applications Introduction

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