

# **Interactions and Transitions in Quantum Wells: Physics and Device Applications I**

**Molecular Electronics**

**H. C. Liu**

**Federico Capasso**



**International Society for Optics and Photonics  
Society for Photo-Optical Instrumentation Engineers**

# Semiconductors And Semimetals Volume 66

## Intersubband Transitions In Quantum Wells Physics And

### Device Applications Ii

**Mark Fox**

## **Semiconductors And Semimetals Volume 66 Intersubband Transitions In Quantum Wells Physics And Device Applications II:**

**Intersubband Transitions in Quantum Wells: Physics and Device Applications II**, 1999-10-25 Intersubband Transitions in Quantum Wells Physics and Device Applications II     *Intersubband Transitions in Quantum Wells: Physics and Device Applications*, 1999-10-28 Since its inception in 1966 the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well known authors editors and contributors The Willardson and Beer series as it is widely known has succeeded in producing numerous landmark volumes and chapters Not only did many of these volumes make an impact at the time of their publication but they continue to be well cited years after their original release Recently Professor Eicke R Weber of the University of California at Berkeley joined as a co editor of the series Professor Weber a well known expert in the field of semiconductor materials will further contribute to continuing the series tradition of publishing timely highly relevant and long impacting volumes Some of the recent volumes such as Hydrogen in Semiconductors Imperfections in III V Materials Epitaxial Microstructures High Speed Heterostructure Devices Oxygen in Silicon and others promise that this tradition will be maintained and even expanded Reflecting the truly interdisciplinary nature of the field that the series covers the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists chemists materials scientists and device engineers in modern industry

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devices To make this book as widely accessible as possible the treatment and presentation of the materials is simple and straightforward The topics for the book were chosen by the following criteria they must be well established and understood and they should have been or potentially will be used in practical applications The monograph discusses most aspects relevant for the field but omits at the same time detailed discussions of specialized topics such as the valence band quantum wells

**Optical Properties of Solids** Anthony Mark Fox,2001 This book gives an introduction to the optical properties of solids including many new topics that have not been previously covered in other solid state texts at this level The fundamental principles of absorption reflection luminescence and light scattering are discussed for a wide range of materials including crystalline insulators and semiconductors glasses metals and molecular materials Classical and quantum models are used where appropriate along with recent experimental data Examples include semiconductor quantum wells organic semiconductors vibronic solid state lasers and nonlinear optics

**Thin-Film Diamond II** Christopher Nebel,2004-04-19

Part II reviews the state of the art of thin film diamond a very promising new semiconductor that may one day rival silicon as the material of choice for electronics Diamond has the following important characteristics it is resistant to radiation damage chemically inert and biocompatible and it will become the material for bio electronics in vivo applications radiation detectors and high frequency devices Thin Film Diamond II is the first book to summarize state of the art of CVD diamond in depth It covers the most recent results regarding growth and structural properties doping and defect characterization hydrogen in and on diamond as well as surface properties in general applications of diamond in electrochemistry as detectors and in surface acoustic wave devices Accessible by both experts and non experts in the field of semi conductors research and technology each chapter is written in a tutorial format Assisting engineers to manufacture devices with optimized electronic properties Truly international this volume contains chapters written by recognized experts representing academic and industrial institutions from Europe Japan and the US

**Mid-infrared Semiconductor Optoelectronics** Anthony

Krier,2007-05-22 Optoelectronic devices operating in the mid infrared wavelength range offer applications in a variety of areas from environmental gas monitoring around oil rigs to the detection of narcotics They could also be used for free space optical communications thermal imaging applications and the development of homeland security measures Mid infrared Semiconductor Optoelectronics is an overview of the current status and technological development in this rapidly emerging area the basic physics some of the problems facing the design engineer and a comparison of possible solutions are laid out the different lasers used as sources for mid infrared technology are considered recent work in detectors is reviewed the last part of the book is concerned with applications With a world wide authorship of experts working in many mid infrared related fields this book will be an invaluable reference for researchers and graduate students drawn from physics electronic and electrical engineering and materials science

**Intersubband Transitions in Quantum Wells: Physics and Device**

**Applications II** ,1999-10-27

**Fundamentals of Photonics** Bahaa E. A. Saleh,Malvin Carl Teich,2007-03-09

Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second 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 logical 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 photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest

### **Intersubband Transitions in Quantum Wells: Physics and**

**Device Applications II**, 1999-10-27 Intersubband Transitions in Quantum Wells Physics and Device Applications II

*Physics and Simulation of Optoelectronic Devices XII* Marek Osiński, Fritz Henneberger, 2004 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 *Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050* Ronald G. Driggers, 2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field *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

**Intersubband Transitions in Quantum Wells: Physics and Device Applications II**,1999-10-13    *Physics, Uspekhi*,  
,2003    **Journal of the Physical Society of Japan**,2004    **Optische Eigenschaften von Festkörpern** Mark

Fox,2020-04-06 In leicht verständlicher Weise werden klassische Grundlagen bis hin zur aktuellen Forschung vermittelt Aufgrund langjähriger Lehrerfahrung gelingt es dem Autor den Zusammenhang von zugrundeliegender Physik und mathematischer Beschreibung anschaulich zu vermitteln Aufgrund von Zusammenfassungen und weiterführenden Literaturangaben ist das Werk gleichermaßen zum Selbststudium geeignet wie zur vertiefenden Vorlesungsbegleitung Zahlreichebungsaufgaben mit Lösungen ermöglichen die unmittelbare Verwendung des Gelernten

**Handbook of Compound Semiconductors** Paul H. Holloway,Gary E. McGuire,2008-10-19 This book reviews the recent advances and current technologies used to produce microelectronic and optoelectronic devices from compound semiconductors It provides a complete overview of the technologies necessary to grow bulk single crystal substrates grow hetero or homoepitaxial films and process advanced devices such as HBT s QW diode lasers etc    **Deep-well GaAs- and InP-based Quantum Cascade Lasers for Mid-infrared Emission** Mithun D'Souza,2008

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