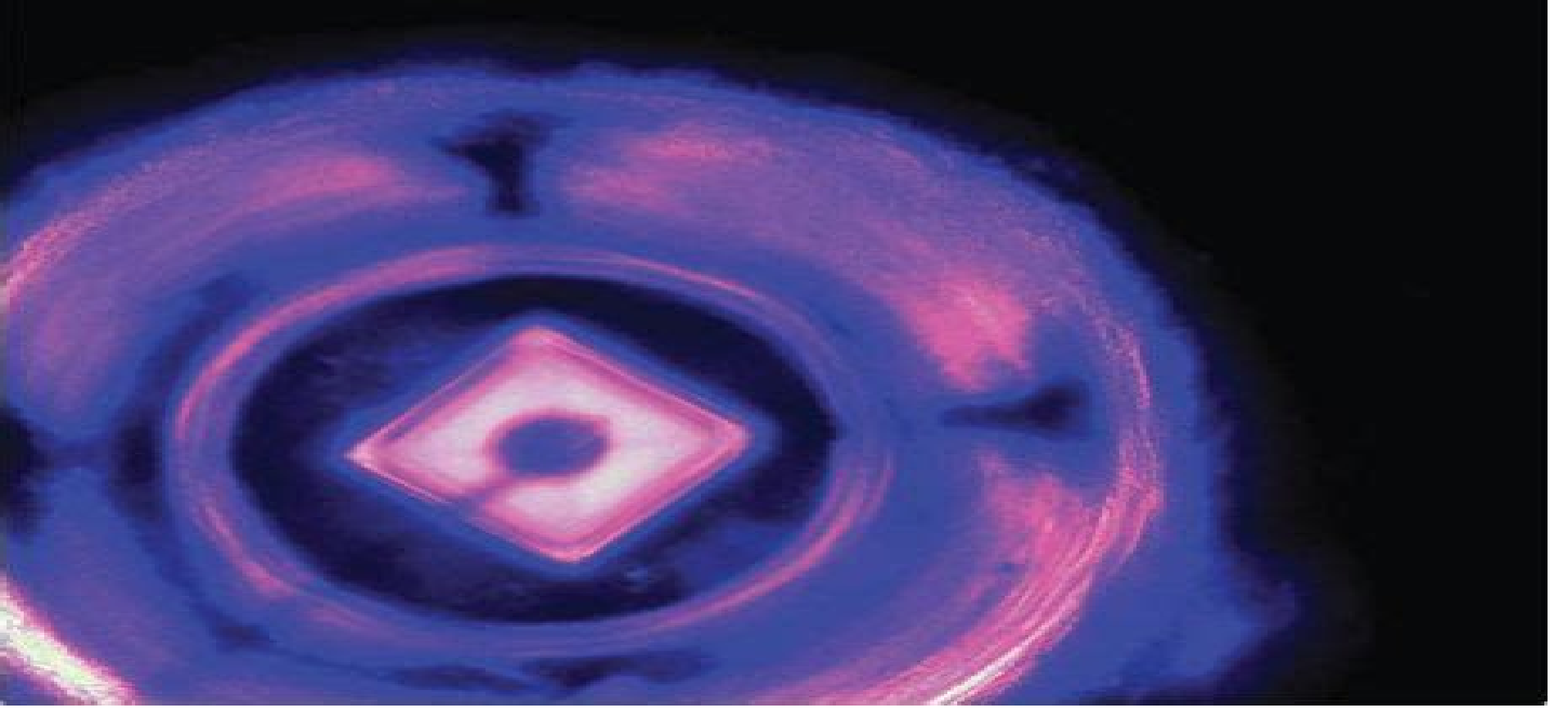


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Luminescence Spectroscopy *of* Semiconductors



Luminescence Spectroscopy Of Semiconductors

**Tingkai Li, Michael Mastro, Armin
Dadgar**



Luminescence Spectroscopy Of Semiconductors:

Luminescence Spectroscopy of Semiconductors Ivan Pelant, Jan Valenta, 2012-02-02 This book reviews up to date ideas of how the luminescence radiation in semiconductors originates and how to analyze it experimentally The book fills a gap between general textbooks on optical properties of solids and specialized monographs on luminescence It is unique in its coherent treatment of the phenomenon of luminescence from the very introductory definitions from light emission in bulk crystalline and amorphous materials to the advanced chapters that deal with semiconductor nano objects including spectroscopy of individual nanocrystals The theory of radiative recombination channels in semiconductors is considered on a level of intuitive physical understanding rather than rigorous quantum mechanical treatment The book is based on teaching and written in the style of a graduate text with plenty of tutorial material illustrations and problem sets at chapter ends It is designed predominantly for students in physics optics optoelectronics and materials science

Luminescence Spectroscopy of Semiconductors Ivan Pelant, Jan Valenta, 2012-02-02 Semiconductor luminescence has been a rapidly expanding field over the last 50 years This text reviews the whole subject of semiconductor luminescence in one volume

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-11 *The Spectroscopy of Semiconductors*, 1992-07-31 Spectroscopic techniques are among the most powerful characterization methods used to study semiconductors This volume presents reviews of a number of major spectroscopic techniques used to investigate bulk and artificially structured semiconductors including photoluminescence photo reflectance inelastic light scattering magneto optics ultrafast work piezo spectroscopy methods and spectroscopy at extremely low temperatures and high magnetic fields Emphasis is given to major semiconductor systems and artificially structured materials such as GaAs InSb Hg_{1-x}Cd_xTe and MBE grown structures based upon GaAs AlGaAs materials Both the spectroscopic novice and the expert will benefit from the descriptions and discussions of the methods principles and applications relevant to today's semiconductor structures Key Features Discusses the latest advances in spectroscopic techniques used to investigate bulk and artificially structured semiconductors Features detailed review articles which cover basic principles Highlights specific applications such as the use of laser spectroscopy for the characterization of GaAs quantum well structures

Spectroscopy of Nonequilibrium Electrons and Phonons C.V. Shank, B.P. Zakharchenya, 2012-12-02 The physics of nonequilibrium electrons and phonons in semiconductors is an important branch of fundamental physics that has many practical applications especially in the development of ultrafast and ultrasmall semiconductor devices This volume is devoted to different trends in the field which are presently at the forefront of research Special attention is paid to the ultrafast relaxation processes in bulk semiconductors and two dimensional semiconductor structures and to their study by different spectroscopic methods both pulsed and steady state The evolution of energy and space distribution of nonequilibrium electrons and the relaxation kinetics of hot carriers and phonons are considered under various conditions such as

temperature doping and pumping intensity by leading experts in the field *Semiconductor Research* Amalia Patane, Naci Balkan, 2012-04-12 The book describes the fundamentals latest developments and use of key experimental techniques for semiconductor research It explains the application potential of various analytical methods and discusses the opportunities to apply particular analytical techniques to study novel semiconductor compounds such as dilute nitride alloys The emphasis is on the technique rather than on the particular system studied **Der Photoeffekt** Klaus H. Herrmann, 2013-07-02 **Hot Electrons in Semiconductors** N. Balkan, 1998 Since the arrival of the transistor in 1947 research in hot electrons like any field in semiconductor research has grown at a stunning rate From a physicist's point of view the understanding of hot electrons and their interactions with the lattice has always been a challenging problem of condensed matter physics Recently with the advent of novel fabrication techniques such as electron beam or plasma etching and the advanced growth techniques such as the molecular beam epitaxy MBE and metallo organic chemical vapour deposition MOCVD it has become possible to fabricate semiconductor devices with sub micron dimensions where the electrons are confined to two quantum well one quantum wire or zero quantum dot dimensions In devices of such dimensions a few volts applied to the device result in the setting up of very high electric fields hence a substantial heating of electrons Thus electronic transport in the device becomes non linear and can no longer be described using the simple equations of Ohm's law The understanding of the operations of such devices and the realisations of more advanced ones make it necessary to understand the dynamics of hot electrons There is an obvious lack of good reference books on hot electrons in semiconductors The few that exist either cover a very narrow field or are becoming quite outdated This book is therefore written with the aim of filling the vacuum in an area where there is much demand for a comprehensive reference book The book is intended for both established researchers and graduate students and gives a complete account of the historical development of the subject together with current research interests and future trends The contributions are written by leading scientists in the field They cover the physics of hot electrons in bulk and low dimensional device technology The material is organised into subject area that can be classified broadly into five groups 1 introduction and overview 2 hot electron phonon interactions and the ultra fast phenomena in bulk and two dimensional structures 3 hot electrons in both long and short quantum wires and quantum dots 4 hot electron tunnelling and hot electron transport in superlattices and 5 novel devices based on hot electron transport The chapters are grouped according to subject matter as far as possible However although there is much overlap of ideas and concepts each chapter is essentially independent of the others **Spectroscopy And Optoelectronics In Semiconductors And Related Materials - Proceedings Of The Sino-soviet Seminar** Sue-chu Shen, J H Chu, Z P Wang, J Q Yu, Gy Zhang, 1990-11-23 This proceedings volume covers new results from recent studies on impurity states bound states in semiconductors phonons excitons and electron confinement in superlattices and quantum wells magnetooptics optical properties of solids in far infrared and millimeter wave regions optical nonlinearity for III V II VI compounds Si Ge amorphous and organic

semiconductors as well as optical crystals Special emphasis is placed on the 2DEG system Fundamentals of Semiconductors Peter YU,Manuel Cardona,2010-04-07 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters **Optical Properties of Semiconductors** G. Martinez,2013-06-29 It is widely recognized that an understanding of the optical properties of matter will give a great deal of important information relevant to the fundamental physical properties This is especially true in semiconductor physics for which due to the intrinsic low screening of these materials the optical response is quite rich Their spectra reflect indeed as well electronic as spin or phonon transitions This is also in the semiconductor field that artificial structures have been recently developed showing for the first time specific physical properties related to the low dimensionality of the electronic and vibrational properties with this respect the quantum and fractional quantum Hall effects are among the most well known aspects The associated reduced screening is also a clear manifestation of these aspects and as such favors new optical properties or at least significantly enhances some of them For all these reasons it appeared necessary to try to review in a global way what the optical investigation has brought today about the understanding of the physics of semiconductors This volume collects the papers presented at the NATO Advanced study Institute on Optical Properties of Semiconductors held at the Ettore Majorana Centre Erice Sicily on March 9th to 20th 1992 This school brought together 70 scientists active in research related to optical properties of semiconductors There were 12 lecturers who provided the main contributions *III-V Compound Semiconductors* Tingkai Li,Michael Mastro,Armin Dadgar,2016-04-19 Silicon based microelectronics has steadily improved in various performance to cost metrics But after decades of processor scaling fundamental limitations and considerable new challenges have emerged The integration of compound semiconductors is the leading candidate to address many of these issues and to continue the relentless pursuit of more **Ultrafast Physical Processes in Semiconductors** ,2000-10-06 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

Best Of Soviet Semiconductor Physics And Technology (1989-1990) Michael S Shur, Michael E Levinshtein, 1995-12-08 Each year a large number of first rate articles on the physics and technology of semiconductor devices written by Soviet experts in the field are published However due to the lack of exchange and personal contact most of these unfortunately are neglected by many scientists from the United States Japan as well as Western Europe Consequently many important developments in semiconductor physics are missed by the Western world This book is a serious attempt to bridge the gap between the Soviet and Western scientific communities Most of all it is an effort towards facilitating the communication and sharing of knowledge amongst people from different parts of the world Ultimately the aim is to contribute towards the building of a better world for all one where the knowledge of advanced technology and scientific discoveries is used to improve the quality of life and not the pursuit of selfish mutually destructive behavior For those in the field who wish to partake in this exchange of knowledge and as a gesture of support for their Soviet counterparts the reading of this book provides the first step

Semiconductor Optics Claus F. Klingshirn, 2006-01-02 The book on Semiconductor Optics has been favourably received by the students and the scientific community worldwide After the first edition which appeared in 1995 several reprints became necessary starting from 1997 one of them for the Chinese market They contained only rather limited updates of the material and corrections In the meantime scientific progress brought a lot of new results which necessitate a new seriously revised edition This progress includes bulk semiconductors but especially structures of reduced dimensionality These new trends and results are partly included in existing chapters e.g. for phonons or for time resolved spectroscopy partly new chapters have been introduced like the ones on cavity polaritons and photonic structures We based the description of the optical properties again on the simple and intuitively clear model of the Lorentz oscillators and the concept of polaritons as the quanta of light in matter But since there is presently a trend to describe at least the optical properties of the electronic system of semiconductors by the optical or the semiconductor Bloch equations a chapter has been added on this topic written by Prof Dr R v Baltz Karlsruhe to familiarize the reader with this concept too which needs a bit more quantum mechanics compared to the approach used here The chapter on group theory has been revised by

Prof Dr K Hummer Karlsruhe Forchheim Karlsruhe C F Klingshirn September 2004 Preface to the First Edition One of the most prominent senses of many animals and of course of human beings is sight or vision Handbook of Luminescent Semiconductor Materials Leah Bergman, Jeanne L. McHale, 2016-04-19 Photoluminescence spectroscopy is an important approach for examining the optical interactions in semiconductors and optical devices with the goal of gaining insight into material properties With contributions from researchers at the forefront of this field Handbook of Luminescent Semiconductor Materials explores the use of this technique to study **21st Century Nanoscience - A Handbook** Klaus D. Sattler, 2020-04-02 This up to date reference is the most comprehensive summary of the field of nanoscience and its applications It begins with fundamental properties at the nanoscale and then goes well beyond into the practical aspects of the design synthesis and use of nanomaterials in various industries It emphasizes the vast strides made in the field over the past decade the chapters focus on new promising directions as well as emerging theoretical and experimental methods The contents incorporate experimental data and graphs where appropriate as well as supporting tables and figures with a tutorial approach **Solar Light Harvesting with Nanocrystalline Semiconductors** Oleksandr Stroyuk, 2017-11-07 This book explains the use of nanocrystalline semiconductors in the harvesting of energy from solar light It introduces promising methodology and technology which may help to increase the efficiency of light harvesting one of the major challenges on the way toward sustainable energy generation The book starts with a general introduction to the photochemistry of semiconductor nanocrystals In the introductory chapter the author also provides a frank and critical discussion on perspectives and limitations of the photocatalytic processes for solar light conversion including a historical account on semiconductor photocatalysis He discusses that and also why it is a long way from laboratory prototypes to real sustainable technologies The following chapters outline the conversion of solar light energy in semiconductor nanophotocatalysis on the one hand and to electric energy in nanocrystalline semiconductor based solar cells on the other hand Topics addressed include nanophotocatalytic hydrogen production artificial photosynthesis quantum dot sensitized liquid junction and bulk heterojunction solar cells Perspectives and opportunities but also bottlenecks and limitations are discussed and the novel systems compared with established technology such as classical silicon solar cells While readers in this way learn to understand the basics and get introduced to the current research in the field the final chapter provides them with the necessary knowledge about methodology both in synthesis and characterization of semiconductor nanophotocatalysts and semiconductor nanomaterials including examples for the practice of photocatalytic experiments and the studies of semiconductor based solar cells **Doping in III-V Semiconductors** E. Fred Schubert, 2015-08-18 This is the first book to describe thoroughly the many facets of doping in compound semiconductors Equal emphasis is given to the fundamental materials physics and to the technological aspects of doping The author describes various doping techniques including doping during epitaxial growth doping by implantation and doping by diffusion The key characteristics of all dopants that

have been employed in III V semiconductors are discussed In addition general characteristics of dopants are analyzed including the electrical activity saturation amphotericity autocompensation and maximum attainable dopant concentration Redistribution effects are important in semiconductor microstructures Linear and non linear diffusion different microscopic diffusion mechanisms surface segregation surface drift surface migration impurity induced disordering and the respective physical driving mechanisms are illustrated Topics related to basic impurity theory include the hydrogenic model for shallow impurities linear screening density of states classical and quantum statistics the law of mass action as well as many analytic approximations for the Fermi Dirac integral for three two and one dimensional systems The timely topic of highly doped semiconductors including band tails impurity bands bandgap renormalization the Mott transition and the Burstein Moss shift is discussed as well Doping is essential in many semiconductor heterostructures including high mobility selectively doped heterostructures quantum well and quantum barrier structures doping superlattice structures and d doping structures Technologically important deep levels are summarized including Fe Cr and the DX center the EL2 defect and rare earth impurities The properties of deep levels are presented phenomenologically including emission capture Shockley Read recombination the Poole Frenkel effect lattice relaxation and other effects The final chapter is dedicated to the experimental characterization of impurities This book will be of interest to graduate students researchers and development engineers in the fields of electrical engineering materials science physics and chemistry working on semiconductors The book may also be used as a text for graduate courses in electrical engineering and materials science **Picosecond Phenomena** C. V. Shank, E. P. Ippen, S. L. Shapiro, 2013-03-12

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