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LUMINESCENCE OF WIDEBAND SEMICONDUCTORS

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Luminescence Of Wideband Semiconductors

C.G. Van de Walle



Luminescence Of Wideband Semiconductors:

Wide-band-gap Semiconductors C.G. Van de Walle, 2012-12-02 Wide band gap semiconductors have been a research topic for many decades. However, it is only in recent years that the promise for technological applications came to be realized simultaneously. An upsurge of experimental and theoretical activity in the field has been witnessed. Semiconductors with wide band gaps exhibit unique electronic and optical properties. Their low intrinsic carrier concentrations and high breakdown voltage allow high temperature and high power applications. Diamond, SiC, etc. The short wavelength of band to band transitions allows emission in the green, blue, or even UV region of the spectrum. ZnSe, GaN, etc. In addition, many of these materials have favorable mechanical and thermal characteristics. These proceedings reflect the exciting progress made in this field. Successful p-type doping of ZnSe has recently led to the fabrication of blue-green injection lasers. In ZnSe applications of short wavelength light emitting devices range from color displays to optical storage. In SiC, advances in growth techniques for bulk as well as epitaxial material have made the commercial production of high temperature and high frequency devices possible. For GaN, refinement of growth procedures and new ways of obtaining doped material have resulted in blue light emitting diodes and opened the road to the development of laser diodes. Finally, while the quality of artificial diamond is not yet high enough for electronic applications, the promise it holds in terms of unique material properties is encouraging intense activity in the field. This volume contains contributions from recognized experts presently working on different material systems in the field. The papers cover the theoretical, experimental, and application oriented aspects of this exciting topic.

Luminescence of Wideband Semiconductors M. D. Galanin, 1990 Contains research on the optical and photoelectric properties of wideband ZnS, La₂S₃, La₂O₃S, and InP semiconductors. *Wide Band-Gap Semiconductor Nuclear Radiation Detector* Yuming Zhang, Hui Guo, Jinfeng Zhang, Chiwen Qian, Yapeng Liu, 2025-09-26 This book's purpose and characteristics are not only to introduce the fundamental theoretical knowledge of nuclear radiation detection principles, detector preparation, and detection signal generation, but also provides a comprehensive introduction of the design optimization and preparation of semiconductor nuclear radiation detection. Beginning with the current materials and device processes of wide band gap semiconductors, the book focuses on the challenges and essential technologies of detector design optimization and preparation. The book also provides theoretical support for device design optimization and device failure analysis through the introduction of detector simulation models that integrate simulation results with experimental data.

Diluted Magnetic Semiconductors Mukesh Kumar Jain, 1991 This review volume presents both basic and applied aspects of diluted magnetic semiconductors (DMS). The term DMS applies generally to semiconductors in which a fraction of its constituent ions are replaced by magnetic ions. This book is only the second to review DMS materials. It presents a detailed treatment of the current state of knowledge of the established properties of DMS in the form of single crystals, quantum wells, and superlattices. It also brings together recent work on new DMS materials and presents discussions on a wide range of possible

DMS applications **Wide Band Gap Semiconductor Nanowires 1** Vincent Consonni, Guy Feuillet, 2014-08-08 GaN and ZnO nanowires can be grown using a wide variety of methods from physical vapor deposition to wet chemistry for optical devices. This book starts by presenting the similarities and differences between GaN and ZnO materials as well as the assets and current limitations of nanowires for their use in optical devices including feasibility and perspectives. It then focuses on the nucleation and growth mechanisms of ZnO and GaN nanowires grown by various chemical and physical methods. Finally, it describes the formation of nanowire heterostructures applied to optical devices.

Luminescence Jagannathan Thirumalai, 2016-11-10 The aim of this book is to give readers a broad review of topical worldwide advancements in theoretical and experimental facts, instrumentation and practical applications of luminescent materials and their prospects in dealing with different types of luminescence like photoluminescence, electroluminescence, thermo luminescence, triboluminescence, bioluminescence, design and applications. The additional part of this book deals with the dynamics of rare earth ions, photon down/up converting materials, luminescence dating, lifetime, bioluminescence, microscopical perspectives and prospects towards the basic research or for more advanced applications. This book is divided into four main sections: luminescent materials and their associated phenomena, photo physical properties and their emerging applications, thermoluminescence dating from theory to applications and bioluminescence perspectives and prospects. Individual chapters should serve the broad spectrum of common readers of diverse expertise: layman, students and researchers who may in this book find easily elucidated fundamentals as well as progressive principles of specific subjects associated with these phenomena. This book was created by 14 contributions from experts in different fields of luminescence and technology from over 20 research institutes worldwide.

Processing of 'Wide Band Gap Semiconductors S. J. Pearton, 2013-01-15 Wide bandgap semiconductors made from such materials as GaN, SiC, diamond and ZnSe are undergoing a strong resurgence in recent years principally because of their direct bandgaps which give them a huge advantage over the indirect gap SiC. As an example, more than 10 million blue LEDs using this technology are sold each month and new high brightness 15 lumens per watt long life white LEDs are under development with the potential to replace incandescent bulbs in many situations. This book provides readers with a broad overview of this rapidly expanding technology, bringing them up to speed on new discoveries and commercial applications. It provides specific technical applications of key processes such as laser diodes, LEDs and very high temperature electronic controls on engines, focusing on doping, etching, oxidation, passivation, growth techniques and more.

Wide Band Gap Semiconductor Nanowires 2 Vincent Consonni, Guy Feuillet, 2014-08-08 This book, the second of two volumes, describes heterostructures and optoelectronic devices made from GaN and ZnO nanowires. Over the last decade, the number of publications on GaN and ZnO nanowires has grown exponentially, in particular for their potential optical applications in LEDs, lasers, UV detectors or solar cells. So far, such applications are still in their infancy, which we analyze as being mostly due to a lack of understanding and control of the growth of nanowires and related

heterostructures Furthermore dealing with two different but related semiconductors such as ZnO and GaN but also with different chemical and physical synthesis methods will bring valuable comparisons in order to gain a general approach for the growth of wide band gap nanowires applied to optical devices

Semiconductor Strain Metrology Terence K. S. Wong, 2012 This book surveys the major and newly developed techniques for semiconductor strain metrology Semiconductor strain metrology has emerged in recent years as a topic of great interest to researchers involved in thin film and nanoscale device characterizati

Instabilities of Relativistic Electron Beam in Plasma Valery B. Krasovitskii, 2008 This book is devoted to the non linear theory of the collective interaction between a modulated beam of relativistic charged particles and narrow electromagnetic and Langmuir wave packets in plasma or gas slow wave systems Regular oscillations excited by a relativistic beam under the conditions of Cherenkov resonance and the anomalous Doppler effect can be used to generate coherent microwave radiation and accelerate charged particles in plasma

New Developments in Quantum Cosmology Research Albert Reimer, 2005 Horizons in World Physics Volume 247 New Developments in Quantum Cosmology Research

Handbook of Electroluminescent Materials D. R. Vij, 2004-06-01 An electroluminescent EL material is one that emits electromagnetic EM radiation in the visible or near visible range when an electric field is applied to it EL materials have a vast array of applications in the illumination and displays industries from cheap and energy efficient lighting to large high resolution flat panel displays

Defects in Semiconductors 18 Masashi Suezawa, Hiroshi Katayama-Yoshida, 1995-11-21 Proceedings of the 18th International Conference on Defects in Semiconductors ICDS 18 Sendai Japan July 1995

Handbook of Self Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics Mohamed Henini, 2011-07-28 The self assembled nanostructured materials described in this book offer a number of advantages over conventional material technologies in a wide range of sectors World leaders in the field of self organisation of nanostructures review the current status of research and development in the field and give an account of the formation properties and self organisation of semiconductor nanostructures Chapters on structural electronic and optical properties and devices based on self organised nanostructures are also included Future research work on self assembled nanostructures will connect diverse areas of material science physics chemistry electronics and optoelectronics This book will provide an excellent starting point for workers entering the field and a useful reference to the nanostructured materials research community It will be useful to any scientist who is involved in nanotechnology and those wishing to gain a view of what is possible with modern fabrication technology Mohamed Henini is a Professor of Applied Physics at the University of Nottingham He has authored and co authored over 750 papers in international journals and conference proceedings and is the founder of two international conferences He is the Editor in Chief of Microelectronics Journal and has edited three previous Elsevier books Contributors are world leaders in the field Brings together all the factors which are essential in self organisation of quantum nanostructures Reviews the current status of research and development in self organised

nanostructured materials Provides a ready source of information on a wide range of topics Useful to any scientist who is involved in nanotechnology Excellent starting point for workers entering the field Serves as an excellent reference manual

Astrophysics and Condensed Matter Thomas G. Hardwell, 2008 This book presents the latest research in two leading areas of physics astrophysics and condensed matter *Quantum Dots* Peter A. Ling, 2005 A quantum dot is a particle of matter so small that the addition or removal of an electron changes its properties in some useful way All atoms are quantum dots but multi molecular combinations can have this characteristic In biochemistry quantum dots are called redox groups In nanotechnology they are called quantum bits or qubits Quantum dots typically have dimensions measured in nanometers where one nanometer is 10^{-9} meter or a millionth of a millimetre The fields of biology chemistry computer science and electronics are all of interest to researchers in nanotechnology Other applications of quantum dots include nanomachines neural networks and high density memory or storage media Research is being carried out on nano crystals self assembled dots and gated structures This book presents leading edge research from around the world Self Focusing of Relativistic Electron Bunches in Plasma Valery B. Krasovitskii, 2008 This volume presents the non linear theory of electrostatic focusing of an electron beam split into bunches under conditions when the plasma permittivity at the modulation frequency is negative and the effective Coulomb force acting on the electron bunches is reversed Conditions for the spatial equilibrium between the bunch and plasma emission as well as the dynamics of the formation of focussed bunches are confirmed by solving both analytically and numerically the self consistent set of equations *Pulsars* Arkadiĭ Dmitrievich Kuz'min, 1992 **Reliability Problems of Semiconductor Lasers** P. G. Eliseev, 1991 **Optical Properties of Semiconductors** N. G. Basov, 2012-12-06

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