



Spectroscopy of Semiconductor Microstructures

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Annalisa Fasolino, and
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NATO ASI Series

Series B: Physics Vol. 206

Spectroscopy Of Semiconductor Microstructures

Minko Balkanski, Trevor Simpson Moss



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Spectroscopy of Semiconductor Microstructures Gerhard Fasol, Annalisa Fasolino, Paolo Lugli, 2013-06-29
Proceedings of a NATO ARW held in Venice Italy May 9 13 1989 **Modulation Spectroscopy of Semiconductor Microstructures** Wojciech Krystek, 1996 Modulation Spectroscopy of Semiconductors and Semiconductor Microstructures Zhijiang Hang, 1991 **Band Structure Engineering in Semiconductor Microstructures** R.A. Abram, M. Jaros, 2012-12-06 This volume contains the proceedings of the NATO Advanced Research Workshop on Band Structure Engineering in Semiconductor Microstructures held at Il Ciocco Castelveccchio Passignano in Tuscany between 10th and 15th April 1988 Research on semiconductor microstructures has expanded rapidly in recent years as a result of developments in the semiconductor growth and device fabrication technologies The emergence of new semiconductor structures has facilitated a number of approaches to producing systems with certain features in their electronic structure which can lead to useful or interesting properties The interest in band structure engineering has stimulated a variety of physical investigations and novel device concepts and the field now exhibits a fascinating interplay between pure physics and device technology Devices based on microstructures are useful vehicles for fundamental studies but also new device ideas require a thorough understanding of the basic physics Around forty researchers gathered at Il Ciocco in the Spring of 1988 to discuss band structure engineering in semiconductor microstructures Modulation Spectroscopy Study of Strained-layer Semiconductor Microstructures Yichun Yin, 1994 *Optical Characterization of Semiconductors* Sidney Perkowitz, 2012-12-02 This is the first book to explain illustrate and compare the most widely used methods in optics photoluminescence infrared spectroscopy and Raman scattering Written with non experts in mind the book develops the background needed to understand the why and how of each technique but does not require special knowledge of semiconductors or optics Each method is illustrated with numerous case studies Practical information drawn from the authors experience is given to help establish optical facilities including commercial sources for equipment and experimental details For industrial scientists with specific problems in semiconducting materials for academic scientists who wish to apply their spectroscopic methods to characterization problems and for students in solid state physics materials science and engineering and semiconductor electronics and photonics this book provides a unique overview bringing together these valuable techniques in a coherent way for the first time Discusses and compares infrared Raman and photoluminescence methods Enables readers to choose the best method for a given problem Illustrates applications to help non experts and industrial users with answers to selected common problems Presents fundamentals with examples from the semiconductor literature without excessive abstract discussion Features equipment lists and discussion of techniques to help establish characterization laboratories *Spectroscopic Characterization Techniques for Semiconductor Technology* , 1994

Spectroscopy and Optoelectronics in Semiconductors and Related Materials S. C. Shen, 1990 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 magneto-optics 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

Hydrogen in Semiconductors II, 1999-05-05 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 publishing 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 Provides the most in depth coverage of hydrogen in silicon available in a single source Includes an extensive chapter on the neutralization of defects in III b1V semiconductors Combines both experimental and theoretical studies to form a comprehensive reference

Scientific Information Bulletin, 1992

Modulation Spectroscopy of Semiconductors Fred H. Pollak, H. Shen, 1993

Optical Properties of Semiconductors Minko Balkanski, Trevor Simpson Moss, 1994 1st edition 1980 published as Optical properties of solids

Solid State Crystals in Optoelectronics and Semiconductor Technology Institute of Technical Physics (Wojskowa Akademia Techniczna im. Jarosława Dąbrowskiego), Komitet Badań Naukowych (Poland), 1997

Spectroscopic Characterization Techniques for Semiconductor Technology III O. J. Glembocki, Fred H. Pollak, Fernando Ponce, 1988

Low-dimensional Semiconductors M. J. Kelly, 1995-11-23 This text is a first attempt to pull together the whole of semiconductor science and technology since 1970 in so far as semiconductor multilayers are concerned Material technology physics and device issues are described with approximately equal emphasis and form a single coherent point of view The subject matter is the concern of over half of today's active semiconductor scientists and technologists the remainder working on bulk semiconductors and devices It is now routine to design and the prepare semiconductor multilayers at a time with independent control over the dropping and composition in each layer In turn these multilayers can be patterned with features that as small as a few atomic layers in lateral extent The resulting structures open up many new areas of exciting solid state and quantum physics They have also led to whole new generations of electronic and optoelectronic devices whose

superior performance relates back to the multilayer structures The principles established in the field have several decades to go advancing towards the ultimate of materials engineering the design and preparation of solids atom by atom The book should appeal equally to physicists electronic engineers and materials scientists

Physics and Applications of Semiconductor Microstructures Milan Jaros,1989 Textbook for third year undergraduate to first year graduate students in physics and microelectronics Outlines concepts concerning the description and applications of novel semiconductor microstructures such as quantum wells superlattices and heterojunction microdevices in general e g lasers transistors optical detectors and switches Annotation copyrighted by Book News Inc Portland OR

Ultrafast Lasers Probe Phenomena in Bulk and Microstructure Semiconductors Robert R. Alfano,1987

Computer Science Research Activities in Asia David K. Kahaner,1994

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Physics Briefs ,1993

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