

G. Bauer · W. Richter

Optical Characterization of Epitaxial Semiconductor Layers

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Daniel F McAuley



Optical Characterization Of Epitaxial Semiconductor Layers:

Optical Characterization of Epitaxial Semiconductor Layers Günther Bauer, Wolfgang Richter, 2012-12-06 The characterization of epitaxial layers and their surfaces has benefitted a lot from the enormous progress of optical analysis techniques during the last decade In particular the dramatic improvement of the structural quality of semiconductor epilayers and heterostructures results to a great deal from the level of sophistication achieved with such analysis techniques First of all optical techniques are nondestructive and their sensitivity has been improved to such an extent that nowadays the epilayer analysis can be performed on layers with thicknesses on the atomic scale Furthermore the spatial and temporal resolution have been pushed to such limits that real time observation of surface processes during epitaxial growth is possible with techniques like reflectance difference spectroscopy Of course optical spectroscopies complement techniques based on the interaction of electrons with matter but whereas the latter usually require high or ultrahigh vacuum conditions the former ones can be applied in different environments as well This advantage could turn out extremely important for a rather technological point of view i e for the surveillance of modern semiconductor processes Despite the large potential of techniques based on the interaction of electromagnetic waves with surfaces and epilayers optical techniques are apparently moving only slowly into this area of technology One reason for this might be that some prejudices still exist regarding their sensitivity

Nondestructive Characterization of Materials XI Robert E. Green, B. Boro Djordjevic, 2003-06-18 The papers published in these proceedings represent the latest developments in the nondestructive characterization of materials and were presented at the Eleventh International Symposium on Nondestructive Characterization of Materials held in June 24-28 2002 in Berlin Germany

Heteroepitaxy of Semiconductors John E. Ayers, 2018-10-08 Heteroepitaxy has evolved rapidly in recent years With each new wave of material substrate combinations our understanding of how to control crystal growth becomes more refined Most books on the subject focus on a specific material or material family narrowly explaining the processes and techniques appropriate for each Surveying the principles common to all types of semiconductor materials *Heteroepitaxy of Semiconductors Theory Growth and Characterization* is the first comprehensive fundamental introduction to the field This book reflects our current understanding of nucleation growth modes relaxation of strained layers and dislocation dynamics without emphasizing any particular material Following an overview of the properties of semiconductors the author introduces the important heteroepitaxial growth methods and provides a survey of semiconductor crystal surfaces their structures and nucleation With this foundation the book provides in depth descriptions of mismatched heteroepitaxy and lattice strain relaxation various characterization tools used to monitor and evaluate the growth process and finally defect engineering approaches Numerous examples highlight the concepts while extensive micrographs schematics of experimental setups and graphs illustrate the discussion Serving as a solid starting point for this rapidly evolving area *Heteroepitaxy of Semiconductors Theory Growth and Characterization* makes the principles of heteroepitaxy easily accessible to anyone

preparing to enter the field **Epitaxial Growth and Characterization of Narrow Bandgap III-V Semiconductors and Related Semimetals** Sukgeun Choi, 2006 Characterization of Heteroepitaxial Silicon Germanium Carbon Layers for Metal Oxide Semiconductor Field Effect Transistor (MOSFET) Applications Peter John Bjeletich, 2004 **Epitaxy of Semiconductors** Udo W. Pohl, 2020-07-20 The extended and revised edition of this textbook provides essential information for a comprehensive upper level graduate course on the crystalline growth of semiconductor heterostructures Heteroepitaxy is the basis of today's advanced electronic and optoelectronic devices and it is considered one of the most important fields in materials research and nanotechnology The book discusses the structural and electronic properties of strained epitaxial layers the thermodynamics and kinetics of layer growth and it describes the major growth techniques metalorganic vapor phase epitaxy molecular beam epitaxy and liquid phase epitaxy It also examines in detail cubic and hexagonal semiconductors strain relaxation by misfit dislocations strain and confinement effects on electronic states surface structures and processes during nucleation and growth Requiring only minimal knowledge of solid state physics it provides natural sciences materials science and electrical engineering students and their lecturers elementary introductions to the theory and practice of epitaxial growth supported by references and over 300 detailed illustrations In this second edition many topics have been extended and treated in more detail e.g. in situ growth monitoring application of surfactants properties of dislocations and defects in organic crystals and special growth techniques like vapor liquid solid growth of nanowires and selective area epitaxy *Modelling and Control of Silicon and Germanium Thin Film Chemical Vapor Deposition* Scott Anderson Middlebrooks, 2001 **Epitaxy of Semiconductor Layered Structures: Volume 102** R. T. Tung, L. R. Dawson, R. L. Gunshor, 1988 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Properties, Processing and Applications of Gallium Nitride and Related Semiconductors** James H. Edgar, 1999 Based on its outstanding properties including a wide energy band gap high thermal conductivity and high electron drift velocity GaN is uniquely suited for many novel devices including solar blind UV light detectors high power microwave transistors and cold cathode electron emitters This excellent reference covers the basic physical and chemical properties surveys existing processing technology and presents summaries of the current state of the art of devices Analysis of Spectroscopic Ellipsometry Data from Patterned Structures for Etching Process Monitoring and Control Wei Kong, 2001 *Semiconductor Materials for Optoelectronics and LTMBE Materials* J. P. Hirtz, 1993 These three day symposia were designed to provide a link between specialists from university or industry who work in different fields of semiconductor optoelectronics Symposium A dealt with topics including epitaxial growth of III V II VI IV VI Si based structures selective area localized and non planar epitaxy shadow mask epitaxy bulk and new optoelectronic materials and polymers for optoelectrics Symposium B dealt with III V epitaxial layers grown by low temperature molecular beam epitaxy a subject which has undergone rapid development in the last three years **Sapphire Surface Preparation and GaN**

Nucleation by Hydride Vapor Epitaxy Fransiska Dwikusuma,2003 *Materials Research in Low Gravity* ,1997 2000
IEEE International Symposium on Compound Semiconductors IEEE Electron Devices Society,2000 This text constitutes the
proceedings from the 25th IEEE International Symposium on Compound Semiconductors which took place in 2000 Topics
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