

# Gaas And Related Materials Bulk Semiconducting And Superlattice Properties

Gaas And Related Materials Properties of III-V Quantum Wells and Superlattices Interfaces, Quantum Wells, and Superlattices Quantum-well and Superlattice Physics III Quantum Well and Superlattice Physics Silicon Molecular Beam Epitaxy Quantum Well and Superlattice Physics Semiconductor Quantum Well Structures and Superlattices VI, May 13th-15th, 1985, Strasbourg, France Quantum Well and Superlattice Physics II Semiconductor Quantum Wells and Superlattices for Long-wavelength Infrared Detectors Properties of II-VI Semiconductors:: Volume 161 Electronic Properties of Two-dimensional Systems Quantum Wells and Superlattices in Optoelectronic Devices and Integrated Optics Phonon Raman Scattering in Semiconductors, Quantum Wells and Superlattices Materials Issues in Amorphous-semiconductor Technology JJAP Soviet Physics Annual Review of Materials Research Japanese Journal of Applied Physics Government Reports Annual Index Sadao Adachi P. K. Bhattacharya C. Richard Leavens Gottfried H. Döhler E. Kasper Gottfried H. Döhler Klaus Ploog Federico Capasso Mahmoud Omar Manasreh F. J. Bartoli, Jr Gerhard Dorda Alfred R. Adams Tobias Ruf

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*Döhler E. Kasper Gottfried H. Döhler Klaus Ploog Federico Capasso Mahmoud Omar Manasreh F. J. Bartoli, Jr  
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this book covers the various material properties of bulk gaas and related materials and aspects of the physics of artificial semiconductor microstructures such as quantum wells and superlattices made of these materials a complete set of the material properties are considered in this book they are structural properties thermal properties elastic and lattice vibronic properties collective effects and some response characteristics electronic energy band structure and consequences optical elasto optic and electro optic properties and carrier transport properties this book attempts to summarize in graphical and tabular forms most of the important theoretical and experimental results on these material properties it contains a large number of references useful for further study timely topics are discussed as well this book will be of interest to graduate students scientists and engineers working on semiconductors

a finely structured state of the art review on controlled building of atomic scale multilayers where nanometric structures based on iii v semiconductors have attracted particular attention

the nato advanced study institute on interfaces quantum wells and superlattices was held from august 16th to 29th 1987 in banff alberta canada this volume contains most of the lectures that were given at the institute a few of the lectures had already been presented at an earlier meeting and appear instead in the proceedings of the nato advanced study institute on physics and applications of quantum wells and super lattices held in erice from april 21st to may 1st earlier in the year and published by plenum press the study of semiconductor interfaces quantum wells and super lattices has come to represent a substantial proportion of all work in condensed matter physics in a sense the growth of interest in this area which began to accelerate about 10 years ago and seems to be continuing has been driven by technological developments while the older generation of semiconductor devices was based on adjacent semiconductors with different properties e g different doping levels separated by interfaces modern semiconductor devices tend to be based more and more on properties of the interfaces themselves this has led as an example to the field of band structure engineering improved understanding of the fundamental physics of these systems has aided technological developments and in turn technological developments have made available systems which exhibit novel and fascinating physical properties such as the integer and fractional quantum hall effects

this subject is divided into two volumes volume i is on homoepitaxy with the necessary systems techniques and models for growth and dopant incorporation three chapters on homoepitaxy are followed by two chapters describing the different ways in which mbe may be applied to create insulator si stackings which may be used for three dimensional circuits the two remaining chapters in volume i are devoted to device applications the first three chapters of volume ii treat all aspects of heteroepitaxy with the exception of the epitaxial insulator si structures already treated in volume i

provides a basic understanding of how semiconductor quantum wells and superlattices can be used for long wavelength infrared detectors and related systems it represents a step towards a knowledge of novel structures that could be used for high performance infrared detectors and imaging rays

the mrs symposium proceeding series is an internationally recognised reference suitable for researchers and practitioners

this book presents recent results of basic research in the field of raman scattering by optic and acoustic phonons in semiconductors quantum wells and superlattices it also describes various new applications for analytical materials research which have emerged alongside with scientific progress trends in raman techniques and instrumentation and their implications for future developments are illustrated

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