

MRS SYMPOSIUM PROCEEDINGS

Volume 1400 • 2002 MRS Spring Meeting

Reliability and Materials Issues of III-V and II-VI Semiconductor Optical and Electron Devices and Materials III

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Semiinsulating Iiiv Materials Evian 1982

R.J. Malik



Semiinsulating Iiiv Materials Evian 1982:

III-V Semiconductor Materials and Devices R.J. Malik,2012-12-02 The main emphasis of this volume is on III V semiconductor epitaxial and bulk crystal growth techniques Chapters are also included on material characterization and ion implantation In order to put these growth techniques into perspective a thorough review of the physics and technology of III V devices is presented This is the first book of its kind to discuss the theory of the various crystal growth techniques in relation to their advantages and limitations for use in III V semiconductor devices **Proceedings of the Symposium on III-V Opto-Electronics Epitaxy and Device Related Processes** V. G. Keramidas,Subhash Mahajan,1983

Semi-insulating III-V Materials ,1993 **Compound Semiconductor Bulk Materials and Characterizations** Osamu Oda,2007 This book is concerned with compound semiconductor bulk materials and has been written for students researchers and engineers in material science and device fabrication It offers them the elementary and intermediate knowledge of compound semiconductor bulk materials necessary for entering this field In the first part the book describes the physical properties crystal growth technologies principles of crystal growth various defects in crystals characterization techniques and applications In the second and the third parts the book reviews various compound semiconductor materials including important industrial materials and the results of recent research *Atomic Diffusion in III-V Semiconductors* Brian Tuck,2021-05-30 III V semiconductors of which gallium arsenide is the best known have been important for some years and appear set to become much more so in the future They have principally contributed to two technologies microwave devices and optoelectronics Recent advances in the production of thin layers have made possible a whole new range of devices based on multi quantum wells The heat treatments used in the manufacture of semiconductor devices means that some diffusion must take place A good understanding of diffusion processes is therefore essential to maintain control over the technology Atomic Diffusion in III V Semiconductors presents a lucid account of the experimental work that has been carried out on diffusion in III Vs and explores the advanced models that explain the results A review of the III V group of semiconductors outlines the special properties that make them so attractive for some types of devices Discussion of the basic elements of diffusion in semiconductors provides the theory necessary to understand the subject in depth and the book gives hints on how to assess the published data Chapters on diffusion of shallow donors shallow acceptors transition elements and very fast diffusing elements provide a critical review of published works The book also presents the neglected subject of self diffusion including a section on superlattices Atomic Diffusion in III V Semiconductors will be of interest to research workers in semiconductor science and technology and to postgraduate students in physics electronics and materials science

Microscopy of Semiconducting Materials 1983, Third Oxford Conference on Microscopy of Semiconducting Materials, St Catherines College, March 1983 Cullis,1983-01-01 [Microscopy of Semiconducting Materials 1983, Third Oxford Conference on Microscopy of Semiconducting Materials, St Catherines College, March 1983](#) A.G.

Cullis, 2020-11-25 This volume contains invited and contributed papers at the conference on Microscopy of Semiconducting Materials which took place on 21-23 March 1983 in St Catharine's College Oxford. The conference was the third in the series devoted to advances in microscopical studies of semiconductors. **Parasitic Interactions Between III-V Compound Field-effect Transistors** James William Roach, 1987 *Materials for Optoelectronic Devices, OEICs and Photonics* H. Schlöterer, M. Quillec, P.D. Greene, M. Bertolotti, 1991-10-08 The aim of the contributions in this volume is to give a current overview on the basic properties and applications of semiconductor and nonlinear optical materials for optoelectronics and integrated optics. They provide a cross linkage between different materials: III-V, II-VI, Si, Ge, glasses etc. various sample dimensions from bulk crystals to quantum dots and a range of techniques for growth: LPE to MOCVD and for processing from surface passivation to ion beams. Major growth techniques and materials are discussed including the sophisticated technologies required to exploit the exciting properties of low dimensional semiconductors. These proceedings will prove an invaluable guide to the current state of optoelectronic and nonlinear optical materials development as well as indicating trends and also future markets for optoelectronic devices. *Semiconductors and Semimetals*, 1983-11-16

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