


Semiconducting III-V Materials

Thomas R. Shulz

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Semi Insulating Iii V Materials Toronto 1990

**H. Schlötterer, M. Quillec, P.D.
Greene, M. Bertolotti**



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Semi-insulating III-V Materials, 1993 **Semi-insulating III-V Materials, Toronto 1990** Arthur George Milnes, Carla J. Miner, 1991 *Semi-insulating III-V Materials, Toronto 1990, Proceedings of the 6th INT Conference on Semi-insulating III-V Materials, Toronto, Canada, 13-16 May 1990* Arthur George Milnes, A. G. Milnes, Carla J. Miner, 1991-01-01 Bulk and epitaxial growth novel characterization techniques Back gating effects and the nature of defects and deep levels are covered in this volume of industrial and academic research papers Applications are discussed as well as the chemistry of compound semiconductors **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 Handbook of Compound Semiconductors Paul H. Holloway, Gary E. McGuire, 2008-10-19 This book reviews the recent advances and current technologies used to produce microelectronic and optoelectronic devices from compound semiconductors It provides a complete overview of the technologies necessary to grow bulk single crystal substrates grow hetero or homoepitaxial films and process advanced devices such as HBT s QW diode lasers etc Materials for Optoelectronic Devices, OEICs and Photonics H. Schlötterer, 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 MOMBE 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 **Compound and Josephson High-Speed Devices** Takahiko Misugi, Akihiro Shibatomi, 2013-06-29 In recent years III V devices integrated circuits and superconducting integrated circuits have emerged as leading contenders for high frequency and ultrahigh speed applications GaAs MESFETs have been applied in microwave systems as low noise and high power amplifiers since the early 1970s replacing silicon devices The heterojunction high electron mobility transistor HEMT invented in 1980 has become a key component for satellite broadcasting receiver systems serving as the ultra low noise device at 12 GHz Furthermore the heterojunction bipolar transistor HBT has been considered as having the highest

switching speed and cutoff frequency in the semiconductor device field Initially most of these devices were used for analog high frequency applications but there is also a strong need to develop high speed III V digital devices for computer telecommunication and instrumentation systems to replace silicon high speed devices because of the switching speed and power dissipation limitations of silicon The potential high speed and low power dissipation of digital integrated circuits using GaAs MESFET HEMT HBT and superconducting Josephson junction devices has evoked tremendous competition in the race to develop such technology A technology review shows that Japanese research institutes and companies have taken the lead in the development of these devices and some integrated circuits have already been applied to supercomputers in Japan The activities of Japanese research institutes and companies in the III V and superconducting device fields have been superior for three reasons First bulk crystal growth epitaxial growth process and design technology were developed at the same time

Semiconductors and Semimetals, 1993-06-07 Semiconductors and Semimetals **Microscopy of Semiconducting**

Materials A.G Cullis, R Beanland, 2000-01-01 With IC technology continuing to advance the analysis of very small structures remains critically important Microscopy of Semiconducting Materials provides an overview of advances in semiconductor studies using microscopy The book explores the use of transmission and scanning electron microscopy ultrafine electron probes and EELS to investigate *Interactive Dynamics of Convection and Solidification* S.H. Davis, H.E. Huppert, U.

Müller, M.G. Worster, 2012-12-06 The phase transformation from liquid to solid is a phenomenon central to a wide range of manufacturing and natural processes The presence of phase transformation can drive convection in the melt through the liberation of latent heat the rejection of solute and the change of density upon freezing The fluid mechanics itself can play a central role the phase transformation can be strongly altered by convective transport in the liquid through the modification of the thermal and solutal environment of the solid liquid interface these local fields control the freezing characteristics at the interface The convection can be generated naturally by buoyancy forces arising from gradients of temperature and concentration in the liquid by density changes upon freezing and by thermocapillary and solutocapillary forces on liquid solid interfaces The interactive coupling between solidification and convection forms the subject of this volume Such coupled processes are significant on a large range of scales Among the applications of interest are the manufacture of single crystals the processing of surfaces using laser or molecular beams and the processes of soldering and welding One wants to understand and predict macrosegregation in castings transport and fractionation in geological and geophysical systems and heat accumulation in energy redistribution and storage systems This volume contains papers presented at the NATO Advanced Research Workshop on Interactive Dynamics of Convection and Solidification held in Chamonix France March 8-13 1992 **Nuclear Methods in Semiconductor Physics** G. Langouche, J.C. Soares, J.P. Stoquert, 1992-04-01 The two areas

of experimental research explored in this volume are the Hyperfine Interaction Methods focusing on the microscopic configuration surrounding radioactive probe atoms in semiconductors and Ion Beam Techniques using scattering energy loss

and channeling properties of highly energetic ions penetrating in semiconductors A large area of interesting local defect studies is discussed Less commonly used methods in the semiconductor field such as nuclear magnetic resonance electron nuclear double resonance muon spin resonance and positron annihilation are also reviewed The broad scope of the contributions clearly demonstrates the growing interest in the use of sometimes fairly unconventional nuclear methods in the field of semiconductor physics

Proceedings of the Thirteenth State-of-the Art Program on Compound Semiconductors (SOTAPOCS XIII) and the Symposium on Metallization of III-V Compound Semiconductors Hong H. Lee,1991

Microprobe Characterization of Optoelectronic Materials Juan Jimenez,2024-11-01 Each chapter in this book is written by a group of leading experts in one particular type of microprobe technique They emphasize the ability of that technique to provide information about small structures i e quantum dots quantum lines microscopic defects strain layer composition and its usefulness as diagnostic technique for device degradation Different types of probes are considered electrons photons and tips and different microscopies optical electron microscopy and tunneling It is an ideal reference for post graduate and experienced researchers as well as for crystal growers and optoelectronic device makers

Hydrogen in Semiconductors M. Stutzmann,J. Chevallier,2012-12-02 Hydrogen on semiconductor surfaces has been an area of considerable activity over the last two decades Structural thermal and dynamical properties of hydrogen chemisorbed on crystalline silicon and other semiconductors have been studied in great detail These properties serve as a reference for related but more complex systems such as hydrogen at multiple vacancies in crystalline semiconductors or at microvoids in amorphous samples Interesting from a surface physics point of view is the fact that hydrogen as a monovalent element is an ideal terminator for unsaturated bonds on surfaces and therefore tends to have a large influence on surface reconstruction A related phenomenon with large technological impact for example in low cost solar cells is the passivation of grain boundaries in microcrystalline semiconductors Finally hydrogenated semiconductor surfaces always appear as a boundary layer during low energy hydrogenation of bulk semiconductors so that a complete description of hydrogen uptake or desorption necessarily has to take these surfaces into account This collection of invited and contributed papers has been carefully balanced to deal with amorphous and crystalline semiconductors and surfaces and presents basic and experimental work basic and applied as well as theory The resulting volume presents a summary of the state of the art in the field of hydrogen in semiconductors and will hopefully stimulate future work in this area

Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes) Ping Jiang,Hou-zhi Zheng,1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest

Bulk Crystal Growth of Electronic, Optical and Optoelectronic Materials Peter Capper,2005-10-31 A valuable timely book for the crystal growth community edited by one of the most respected members in the field Contents cover all the important materials from silicon

through the III V and II IV compounds to oxides nitrides fluorides carbides and diamonds International group of contributors from academia and industry provide a balanced treatment Includes global interest with particular relevance to USA Canada UK France Germany Netherlands Belgium Italy Spain Switzerland Japan Korea Taiwan China Australia and South Africa

Analytical Techniques for the Characterization of Compound Semiconductors G. Bastard, H. Oppolzer, 1991-07-26 This volume is a collection of 96 papers presented at the above Conference The scope of the work includes optical and electrical methods as well as techniques for structural and compositional characterization The contributed papers report on topics such as X ray diffraction TEM depth profiling photoluminescence Raman scattering and various electrical methods Of particular interest are combinations of different techniques providing complementary information The compound semiconductors reviewed belong mainly to the III V and III VI families The papers in this volume will provide a useful reference on the implications of new technologies in the characterization of compound semiconductors

Non-Stoichiometry in Semiconductors K.J. Bachmann, H.-L. Hwang, C. Schwab, 2012-12-02 Significant advances have occurred in the theory of non stoichiometry problems and fundamentally new and wide ranging applications have been developed helping to better identify relevant issues The contributions in this volume bring together the experience of specialists from different disciplines materials scientists physicists chemists and device people confronted with non stoichiometry problems The 40 papers including 9 invited papers give an advanced scenario of this wide interdisciplinary area which is highly important in its diverse aspects of theory implementation and applications This work will be of interest not only to universities and laboratories engaged in studies and research in this field but also to organizations and industrial centres concerned with implementations and applications The diversity of the topics as well as the extraordinary tempo in which Non stoichiometry in Semiconductors has progressed in recent years attest to the permanent vitality of this field of research and development

InP and Related Compounds M O Manasreh, 2000-08-08 InP is a key semiconductor for the production of optoelectronic and photonic devices Its related compounds such as InGaAsP alloy have been realized as very important materials for communication in the 1.3 and 1.55 micron spectral regions Furthermore the applications on InP and related compounds have extended to other areas that include laser diodes light emitting diodes photodetectors waveguides photocathodes solar cells and many other applications The topics presented in this book have been chosen to achieve a balance between the properties of bulk materials doping characterization applications and devices This unique volume featuring chapters written by experts in the field provides a good starting point for those who are new to the subject and contains detailed results and in depth discussions for those who are experts in the field

Low Temperature Epitaxial Growth of Semiconductors Takashi Hariu, 1991 Low temperature processes for semiconductors have been recently under intensive development to fabricate controlled device structures with minute dimensions in order to achieve the highest device performance and new device functions as well as high integration density Comprising reviews by experts long

involved in the respective pioneering work this volume makes a useful contribution toward maturing the process of low temperature epitaxy as a whole

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