

Semi-insulating III-V Materials

Malmö 1988



Edited by G Grossmann and L Ledebø

Semi Insulating Iii V Materials Malmo 1988

Minjie Lin



Semi Insulating Iii V Materials Malmo 1988:

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 **Semiconductors and Semimetals**, 1993-06-07 *Semiconductors and Semimetals 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 **Semi-insulating III-V Materials, Malmo 1988, Proceedings of the 5th Conference on Semi-insulating III-V Materials, Malmo, Sweden, 1-3 June 1988** G. Grossmann, L.-Å Ledebø, 1988-11-01 The 5th Conference on Semi insulating III V Materials was held in Malmo Sweden during June 1988 It followed the traditions of previous conferences in penetrating and documenting current issues in the science and technology of semi insulating materials and in promoting cross fertilisation of ideas between materials scientists physicists and device applications engineers This volume contains contributions from the following areas in which there has been significant recent growth and development Growth of bulk semi insulating crystals Deep levels for realisation of semi insulating materials Generation and annealing of structural defects Characterisation of semi insulating materials Applications of semi insulating materials in devices The following topics in which there is major current interest are included in this series for the first time Optoelectronic integrated circuits Epitaxial growth of semi insulating materials This volume will be invaluable to materials scientists physicists and device applications engineers who are interested in recent developments throughout the semi insulating III V materials field *Microscopy of Semiconducting Materials 1989, Proceedings of the Royal Microscopical Society Conference Held at Oxford University, 10-13 April 1989* A. G. Cullis, J. L. Hutchison, Royal Microscopical Society (Great Britain), 1989 Microscopy of Semiconducting Materials 1989 brings together both the invited

and contributed papers from this conference The main subject areas covered include high resolution microscopy microanalysis epitaxial layers quantum wells and superlattices bulk GaAs X ray studies dielectric structures silicides and metal semiconductor contacts device studies and advanced scanning microscopy techniques This volume provides an indispensable guide for researchers in physics materials science electronics and electrical engineering

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

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

Fundamentals D. T. J. Hurle, 2013-10-22 Volume I Fundamentals addresses the underlying scientific principles relevant to all the techniques of crystal growth Following a Foreword by Professor Sir Charles Frank and an historical introduction the first part contains eight chapters devoted to thermodynamic kinetic and crystallographic aspects including computer simulation by molecular dynamics and Monte Carlo methods The second part comprising a further seven chapters is devoted to bulk transport effects and the influence of transport limited growth on the stability of both isolated growth forms such as the dendrite and arrays and on the cooperative effects which lead to pattern formation All the presentations are superbly authoritative

Doping in III-V Semiconductors E. Fred Schubert, 2015-08-18 This is the first book to describe thoroughly the many facets of doping in compound semiconductors Equal emphasis is given to the fundamental materials physics and to the technological aspects of doping The author describes various doping techniques including doping during epitaxial growth doping by implantation and

doping by diffusion The key characteristics of all dopants that have been employed in III V semiconductors are discussed In addition general characteristics of dopants are analyzed including the electrical activity saturation amphotericity autocompensation and maximum attainable dopant concentration Redistribution effects are important in semiconductor microstructures Linear and non linear diffusion different microscopic diffusion mechanisms surface segregation surface drift surface migration impurity induced disordering and the respective physical driving mechanisms are illustrated Topics related to basic impurity theory include the hydrogenic model for shallow impurities linear screening density of states classical and quantum statistics the law of mass action as well as many analytic approximations for the Fermi Dirac integral for three two and one dimensional systems The timely topic of highly doped semiconductors including band tails impurity bands bandgap renormalization the Mott transition and the Burstein Moss shift is discussed as well Doping is essential in many semiconductor heterostructures including high mobility selectively doped heterostructures quantum well and quantum barrier structures doping superlattice structures and d doping structures Technologically important deep levels are summarized including Fe Cr and the DX center the EL2 defect and rare earth impurities The properties of deep levels are presented phenomenologically including emission capture Shockley Read recombination the Poole Frenkel effect lattice relaxation and other effects The final chapter is dedicated to the experimental characterization of impurities This book will be of interest to graduate students researchers and development engineers in the fields of electrical engineering materials science physics and chemistry working on semiconductors The book may also be used as a text for graduate courses in electrical engineering and materials science

Physics of Semiconductor Devices K. N. Bhat,A. Dasgupta,2004 Contributed papers of the workshop held at IIT Madras in 2003

VLSI Fabrication Principles Sorab K. Ghandhi,1994-03-31 Fully updated with the latest technologies this edition covers the fundamental principles underlying fabrication processes for semiconductor devices along with integrated circuits made from silicon and gallium arsenide Stresses fabrication criteria for such circuits as CMOS bipolar MOS FET etc These diverse technologies are introduced separately and then consolidated into complete circuits An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

F. Weinberg International Symposium on Solidification Processing J. E. Lait,I. V. Samarasekera,2013-10-22 This international symposium is in honour of Professor F Weinberg who will be retiring from the University of British Columbia this year following a distinguished career Six sessions have been organized on Fundamentals of Solidification Non ferrous Casting Processes Continuous and Static Casting of Cast Iron Novel Solidification Studies and Semiconductor and Optoelectronic Crystal Growth addressing the state of the art in each of these areas Keynote speakers for the six sessions are Dr K Jackson Dr N Bryson Prof H A Frederiksson Prof I Minkoff Prof M C Flemings and Prof R Brown

Handbook of Crystal Growth Peter Rudolph,2014-11-04 Vol 2A Basic Technologies Handbook of Crystal Growth Second Edition Volume IIA Basic Technologies presents basic growth technologies and modern crystal cutting methods Particularly

the methodical fundamentals and development of technology in the field of bulk crystallization on both industrial and research scales are explored After an introductory chapter on the formation of minerals ruling historically the basic crystal formation parameters advanced basic technologies from melt solution and vapour being applied for research and production of the today most important materials like silicon semiconductor compounds and oxides are presented in detail The interdisciplinary and general importance of crystal growth for human live are illustrated Vol 2B Growth Mechanisms and Dynamics Handbook of Crystal Growth Second Edition Volume IIB Growth Mechanisms and Dynamics deals with characteristic mechanisms and dynamics accompanying each bulk crystal growth method discussed in Volume IIA Before the atoms or molecules pass over from a position in the fluid medium gas melt or solution to their place in the crystalline face they must be transported in the fluid over macroscopic distances by diffusion buoyancy driven convection surface tension driven convection and forced convection rotation acceleration vibration magnetic mixing Further the heat of fusion and the part carried by the species on their way to the crystal by conductive and convective transport must be dissipated in the solid phase by well organized thermal conduction and radiation to maintain a stable propagating interface Additionally segregation and capillary phenomena play a decisional role for chemical composition and crystal shaping respectively Today the increase of high quality crystal yield its size enlargement and reproducibility are imperative conditions to match the strong economy Volume 2A Presents the status and future of Czochralski and float zone growth of dislocation free silicon Examines directional solidification of silicon ingots for photovoltaics vertical gradient freeze of GaAs CdTe for HF electronics and IR imaging as well as antiferromagnetic compounds and super alloys for turbine blades Focuses on growth of dielectric and conducting oxide crystals for lasers and non linear optics Topics on hydrothermal flux and vapour phase growth of III nitrides silicon carbide and diamond are explored Volume 2B Explores capillarity control of the crystal shape at the growth from the melt Highlights modeling of heat and mass transport dynamics Discusses control of convective melt processes by magnetic fields and vibration measures Includes imperative information on the segregation phenomenon and validation of compositional homogeneity Examines crystal defect generation mechanisms and their controllability Illustrates proper automation modes for ensuring constant crystal growth process Exhibits fundamentals of solution growth gel growth of protein crystals growth of superconductor materials and mass crystallization for food and pharmaceutical industries

Positron Annihilation in Semiconductors Reinhard Krause-Rehberg, Hartmut S. Leipner, 1999-01-21 This comprehensive book reports on recent investigations of lattice imperfections in semiconductors by means of positron annihilation It reviews positron techniques and describes the application of these techniques to various kinds of defects such as vacancies impurity vacancy complexes and dislocations

Gaas Detectors And Electronics For High Energy Physics - Proceedings Of The 20th Intn Eloisatron Project Workshop C Del Papa, Pier Giovanni Pelfer, K Smith, 1992-12-18 The 1952 Nobel physics laureate Felix Bloch 1905-83 was one of the titans of twentieth century physics He laid the fundamentals for the theory of

solids and has been called the father of solid state physics His numerous valuable contributions include the theory of magnetism measurement of the magnetic moment of the neutron nuclear magnetic resonance and the infrared problem in quantum electrodynamics Statistical mechanics is a crucial subject which explores the understanding of the physical behaviour of many body systems that create the world around us Bloch s first year graduate course at Stanford University was the highlight for several generations of students Upon his retirement he worked on a book based on the course Unfortunately at the time of his death the writing was incomplete This book has been prepared by Professor John Dirk Walecka from Bloch s unfinished masterpiece It also includes three sets of Bloch s handwritten lecture notes dating from 1949 1969 and 1976 and details of lecture notes taken in 1976 by Brian Serot who gave an invaluable opinion of the course from a student s perspective All of Bloch s problem sets some dating back to 1933 have been included The book is accessible to anyone in the physical sciences at the advanced undergraduate level or the first year graduate level Bulk Crystal Growth D. T. J. Hurle, 2016-06-06 Volume 2 is divided into 2 parts Part A reviews the principal techniques used for bulk single crystal growth from melt solution and vapour and for industrial mass crystallisation starting in chapter 1 with nature s techniques The growth of synthetic crystals of a wide range of materials for research and commercial use is covered in depth with emphasis placed on those techniques which are of current importance techniques of only historical interest have not been included Part B covers the basic mechanisms and dynamics of melt and solution growth covering segregation melt convection stress in the cooling crystal polyphase solidification growth in gels spherulitic crystallisation and the numerical modelling of Bridgman and Czochralski growth processes *Acta Physica Polonica* ,1992 **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 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 telecom munication 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

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