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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

Safa Kasap, Peter Capper



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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 *Semi-insulating III-V Materials*, 1993

Proceedings of the Symposium on III-V Opto-Electronics Epitaxy and Device Related Processes V. G. Keramidas, Subhash Mahajan, 1983 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 **Microscopy of Semiconducting Materials 1983, Third Oxford Conference on Microscopy of Semiconducting Materials, St Catherines College, March 1983** Cullis, 1983-01-01

Semiconductors and Semimetals, 1993-06-07 Semiconductors and Semimetals Atomic Diffusion in III-V Semiconductors Brian Tuck, 2021-05-31 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 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 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

Properties of Aluminium Gallium Arsenide Sadao Adachi, 1993 The alloy system AlGaAs GaAs is potentially of great importance for many high speed electronics and optoelectronic devices because the lattice parameter difference GaAs and AlGaAs is very small which promises an insignificant concentration of undesirable interface states Thanks to this prominent feature a number of interesting properties and phenomena such as high mobility low dimensional carrier gases resonant tunnelling and fractional quantum Hall effect have been found in the AlGaAs GaAs heterostructure system New devices such as modulation doped FETs heterojunction bipolar transistors resonant tunnelling transistors quantum well lasers and other photonic and quantum effect devices have also been developed recently using this material system These areas are recognized as not being the most interesting and active fields in semiconductor physics and device engineering

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 **The Physics of Submicron Semiconductor Devices** Harold L. Grubin, David K. Ferry, C. Jacoboni, 2013-11-11

The papers contained in the volume represent lectures delivered as a 1983 NATO ASI held at Urbino Italy The lecture series was designed to identify the key submicron and ultrasubmicron device physics transport materials and contact issues Nonequilibrium transport quantum transport interfacial and size constraints issues were also highlighted The ASI was supported by NATO and the European Research Office H L Grubin D K Ferry C Jacoboni v CONTENTS MODELLING OF SUB MICRON DEVICES 1 E Constant BOLTZMANN TRANSPORT EQUATION 33 K Hess TRANSPORT AND MATERIAL CONSIDERATIONS FOR SUBMICRON DEVICES 45 H L Grubin EPITAXIAL GROWTH FOR SUB MICRON STRUCTURES 179 C E C Wood INSULATOR SEMICONDUCTOR INTERFACES 195 C W Wilms en THEORY OF THE ELECTRONIC STRUCTURE OF SEMICONDUCTOR SURFACES AND INTERFACES 223 C Calandra DEEP

LEVELS AT COMPOUND SEMICONDUCTOR INTERFACES 253 W Monch ENSEMBLE MONTE CARLO TECHNIQUES 289 C Jacoboni NOISE AND DIFFUSION IN SUBMICRON STRUCTURES 323 L Reggiani SUPERLATTICES 361 K Hess SUBMICRON LITHOGRAPHY 373 C D W Wilkinson and S P Beaumont QUANTUM EFFECTS IN DEVICE STRUCTURES DUE TO SUBMICRON CONFINEMENT IN ONE DIMENSION 401 B D McCombe vii viii CONTENTS PHYSICS OF HETEROSTRUCTURES AND HETEROSTRUCTURE DEVICES 445 P J Price CORRELATION EFFECTS IN SHORT TIME NONS TAT I ONARY TRANSPORT 477 J J Niez DEVICE DEVICE INTERACTIONS 503 D K Ferry QUANTUM TRANSPORT AND THE WIGNER FUNCTION 521 G J Iafrate FAR INFRARED MEASUREMENTS OF VELOCITY OVERSHOOT AND HOT ELECTRON DYNAMICS IN SEMICONDUCTOR DEVICES 577 S J Allen Jr

Springer Handbook of Electronic and Photonic Materials Safa Kasap, Peter Capper, 2007-08-01 Electronic materials is a truly interdisciplinary subject that encompasses a number of traditional disciplines such as materials science electrical engineering chemical engineering mechanical engineering physics and chemistry This unique handbook provides broad coverage of a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications Its wide coverage with clear illustrations and applications and its chapter sequencing and logical flow make this a very useful and useable handbook Each chapter has been prepared either by expert researchers or instructors who have been teaching the subject at a university or in corporate laboratories Unlike other handbooks that concentrate on a narrow field and have chapters that start at an advanced level the present handbook starts at a senior undergraduate level and builds up the subject matter in easy steps and in a logical flow Wherever possible the sections are logically sequenced to allow those who need a quick overview of a particular topic immediate access to it Additional valuable features include the practical applications used as examples details on experimental techniques useful tables that summarize equations and most importantly properties of various materials Each chapter is full of clear color illustrations that convey the concepts and make the subject matter enjoyable to read and understand An extensive glossary aids readers from adjacent fields The Handbook constitutes an essential reference for today's electrical engineers materials scientists and physicists

Dopants and Defects in Semiconductors Matthew D. McCluskey, Eugene E. Haller, 2012-02-23 Dopants and Defects in Semiconductors covers the theory experimentation and identification of impurities dopants and intrinsic defects in semiconductors The book fills a crucial gap between solid state physics and more specialized course texts The authors first present introductory concepts including basic semiconductor theory defect classification

Chemistry of the Semiconductor Industry S.J. Moss, A. Ledwith, 1989-02-28 This book covers the chemistry of the major processes involved in the manufacture of integrated circuits The authors describe all the major processes in use together with some interesting processes which are currently being developed and hold future promise Each chapter covers the current state of knowledge of the underlying chemistry of a particular process and identifies areas of uncertainty requiring further research

Dopants and Defects in

Semiconductors, Second Edition Matthew D. McCluskey, Eugene E. Haller, 2018-02-19 Praise for the First Edition The book goes beyond the usual textbook in that it provides more specific examples of real world defect physics an easy reading broad introductory overview of the field Materials Today well written with clear lucid explanations Chemistry World This revised edition provides the most complete up to date coverage of the fundamental knowledge of semiconductors including a new chapter that expands on the latest technology and applications of semiconductors In addition to inclusion of additional chapter problems and worked examples it provides more detail on solid state lighting LEDs and laser diodes The authors have achieved a unified overview of dopants and defects offering a solid foundation for experimental methods and the theory of defects in semiconductors Matthew D McCluskey is a professor in the Department of Physics and Astronomy and Materials Science Program at Washington State University WSU Pullman Washington He received a Physics Ph D from the University of California UC Berkeley Eugene E Haller is a professor emeritus at the University of California Berkeley and a member of the National Academy of Engineering He received a Ph D in Solid State and Applied Physics from the University of Basel Switzerland

Compound Semiconductor Devices Kenneth A. Jackson, 2008-11-21 Compound Semiconductor Devices provides a comprehensive insight into today s standard technologies covering the vast range of semiconductor products and their possible applications The materials covered runs from the basics of conventional semiconductor technology through standard power and opto semiconductors to highly complex memories and microcontrollers and the special devices and modules for smartcards automotive electronics consumer electronics and telecommunications Some chapters are devoted to the production of semiconductor components and their use in electronic systems as well as to quality management The book offers students and users a unique overview of technology architecture and areas of application of semiconductor products

Gallium Arsenide for Devices and Integrated Circuits Hugh Thomas, 1986

Deep Centers in Semiconductors Sokrates T. Pantelides, 1992-11-30 Examines several key semiconductor deep centers all carefully chosen to illustrate a variety of essential concepts A deep center is a lattice defect or impurity that causes very localized bound states and energies deep in the band gap For each deep center chosen a scientist instrumental in its development discusses the theoretical and experimental techniques used to understand that center The second edition contains four new sections treating recent developments including a chapter on hydrogen in crystalline semiconductors Annotation copyright by Book News Inc Portland OR

Properties of Impurity States in Superlattice Semiconductors C.Y. Fong, Inder P. Batra, S. Ciraci, 2012-12-06 A NATO workshop on The Properties of Impurity States in Semiconductor Superlattices was held at the University of Essex Colchester United Kingdom from September 7 to 11 1987 Doped semiconductor superlattices not only provide a unique opportunity for studying low dimensional electronic behavior they can also be custom designed to exhibit many other fascinating electronic properties The possibility of using these materials for new and novel devices has further induced many astonishing advances especially in recent years The purpose of this workshop was to review both advances in the state of the

art and recent results in various areas of semiconductor superlattice research including i growth and characterization techniques ii deep and shallow im purity states iii quantum well states and iv two dimensional conduction and other novel electronic properties This volume consists of all the papers presented at the workshop Chapters 1 6 are concerned with growth and characterization techniques for superlattice semiconductors The question of a layer is also discussed in this section Chapters 7 15 contain a discussion of various aspects of the impurity states Chapters 16 22 are devoted to quantum well states Finally two dimensional conduction and other electronic properties are described in chapters 23 26

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