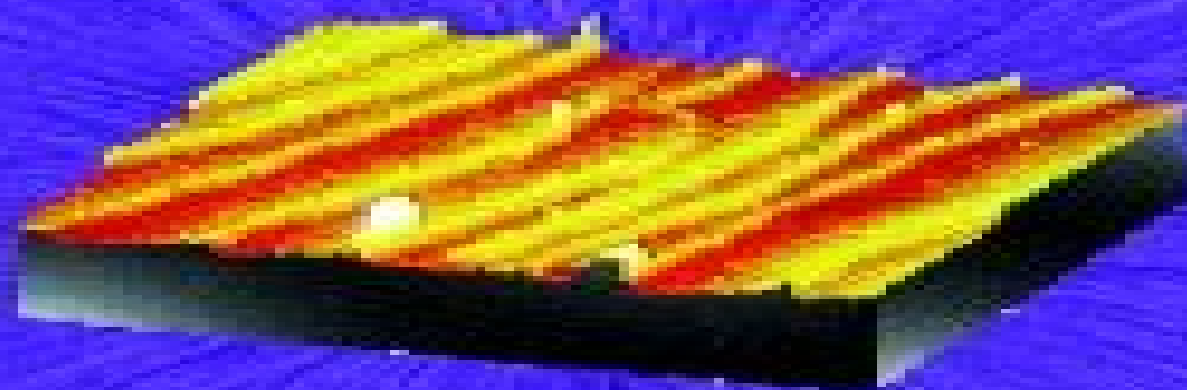


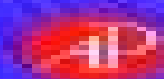
Organometallic Vapor-Phase Epitaxy

Theory and Practice



Gerald B. Stringfellow

SECOND
EDITION



Organometallic Vapor Phase Epitaxy Theory And Practice

Ernst O. Göbel, Uwe Siegner



Organometallic Vapor Phase Epitaxy Theory And Practice:

Organometallic Vapor-Phase Epitaxy Gerald B. Stringfellow, 2012-12-02 Here is one of the first single author treatments of organometallic vapor phase epitaxy OMVPE a leading technique for the fabrication of semiconductor materials and devices Also included are metal organic molecular beam epitaxy MOMBE and chemical beam epitaxy CBE ultra high vacuum deposition techniques using organometallic source molecules Of interest to researchers students and people in the semiconductor industry this book provides a basic foundation for understanding the technique and the application of OMVPE for the growth of both III V and II VI semiconductor materials and the special structures required for device applications In addition a comprehensive summary detailing the OMVPE results observed to date in a wide range of III V and II VI semiconductors is provided This includes a comparison of results obtained through the use of other epitaxial techniques such as molecular beam epitaxy MBE liquid phase epitaxy LPE and vapor phase epitaxy using halide transport *Organometallic Vapor Phase Epitaxy*, 1992 *Metalorganic Vapor Phase Epitaxy (MOVPE)* Stuart Irvine, Peter Capper, 2019-10-07 Systematically discusses the growth method material properties and applications for key semiconductor materials MOVPE is a chemical vapor deposition technique that produces single or polycrystalline thin films As one of the key epitaxial growth technologies it produces layers that form the basis of many optoelectronic components including mobile phone components GaAs semiconductor lasers and LEDs III Vs nitrides optical communications oxides infrared detectors photovoltaics II IV materials etc Featuring contributions by an international group of academics and industrialists this book looks at the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth monitoring It covers the most important materials from III V and II VI compounds to quantum dots and nanowires including sulfides and selenides and oxides ceramics Sections in every chapter of Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications cover the growth of the particular materials system the properties of the resultant material and its applications The book offers information on arsenides phosphides and antimonides nitrides lattice mismatched growth CdTe MCT mercury cadmium telluride ZnO and related materials equipment and safety and more It also offers a chapter that looks at the future of the technique Covers in order the growth method material properties and applications for each material Includes chapters on the fundamentals of MOVPE and the key areas of equipment safety precursor chemicals and growth monitoring Looks at important materials such as III V and II VI compounds quantum dots and nanowires Provides topical and wide ranging coverage from well known authors in the field Part of the Materials for Electronic and Optoelectronic Applications series Metalorganic Vapor Phase Epitaxy MOVPE Growth Materials Properties and Applications is an excellent book for graduate students researchers in academia and industry as well as specialist courses at undergraduate postgraduate level in the area of epitaxial growth MOVPE MOCVD MBE **Organometallchemie** Christoph Elschenbroich, Albrecht Salzer, 2013-03-08 Die wichtigsten Darstellungsmethoden Strukturen und Reaktionstypen der

Organometallchemie werden in diesem Buch vorgestellt und erläutert Um die Dynamik des Gebietes zu vermitteln werden an diversen Stellen Forschungsergebnisse aus jüngster Zeit herangezogen Statt eine Vielzahl von Einzelfakten zu präsentieren wird mit der Darstellung das Verständnis der Triebkraft metallorganischer Reaktionen und des Zusammenhangs zwischen Elektrostruktur und Molekularbau gefördert **Methoden zur Defektreduktion von Galliumnitrid-Substraten und**

-Quasisubstraten Frank Stefan Habel, 2006-10-02 Das Material Galliumnitrid ist bereits heute für die optische Datenspeicherung Blu ray Disc HD DVD und die Allgemeinbeleuchtung von großer Bedeutung Weiße emittierende Leuchtdioden LEDs sollen schon in naher Zukunft Glühlampen und Leuchtstofflampen ersetzen da sie wesentlich energiesparender langlebiger und robuster sind Für diese Anwendungen sind Halbleiterkristalle von besonders hoher Qualität notwendig Diese Arbeit beschäftigt sich daher mit zwei Verfahren zur Herstellung von Galliumnitrid mit geringer Versetzungsdichte und hoher Kristallperfektion wie es für die Weiterentwicklung der Bauelemente notwendig ist Einerseits wird ausgehend von einer grundlegenden Untersuchung der Prozessparameter das MOVPE Wachstum auf strukturierten Substraten diskutiert und bis zu einem mehrstufigen Facetten kontrollierten Verfahren weiterentwickelt Andererseits wird die Herstellung massiver GaN Kristalle mittels Hydrid Gasphasenepitaxie HVPE beschrieben dem aussichtsreichsten Verfahren für die industrielle Fertigung dieses Materials Stichwortliste Galliumnitrid GaN Versetzungen Versetzungsdichte ELO FACELO MOVPE HVPE Hydrid Gasphasenepitaxie **Fundamental Gas-phase and Surface Chemistry of Vapor-phase Deposition II and**

Process Control, Diagnostics and Modeling in Semiconductor Manufacturing IV Electrochemical Society. High Temperature Materials Division, Electrochemical Society. Dielectric Science and Technology Division, 2001 *Entwicklung von GaAs-basierten Heterostruktur-Bipolartransistoren (HBTs) für Mikrowellen-Leistungszellen* Andre Maaßdorf, 2009-05-26 Die vorliegende Arbeit beschäftigt sich mit der Entwicklung von HBTs für hohe Leistungen und hohe Betriebsspannungen Auf der Grundlage von GaAs Ga_{0.5}InP HBTs mit geringer Ausgangsleistung wurden Modifikationen an Emitter und Kollektor vorgenommen Im ersten Teil der Arbeit werden kurz die relevanten Grundlagen des HBTs und der metallorganischen Gasphasenepitaxie MOVPE beleuchtet Im Hauptteil werden verschiedene Konzepte des Kollektor Schichtdesigns zur Erreichung höherer Durchbruchspannungen vorgestellt Ausgiebig wird hierbei ein DHBT mit Ga_{0.5}InP Kollektor diskutiert und die modellbasierte Anpassung des Basis Kollektor Heteroübergangs für eine hohe Stromtragfähigkeit vorgestellt Der DHBT wird anschließend hinsichtlich für den Leistungsbetrieb wichtiger Eigenschaften mit einem konventionellen Leistung HBT verglichen und zeichnet sich aus durch eine höhere Durchbruchspannung von 75 V bei aber fast halbiertem Kollektordicke aus Abschließend wird die Optimierung des Wärmemanagements montierter HBT Chips diskutiert So erreicht ein Flip Chip montierter Leistung HBT eine Ausgangsleistung von 14 W bei 2 GHz *Optical Fiber*

Telecommunications IV Ivan P. Kaminow, Tingye Li, 2002 Volume IVA is devoted to progress in optical component research and development Topics include design of optical fiber for a variety of applications plus new materials for fiber amplifiers

modulators optical switches light wave devices lasers and high bit rate electronics This volume is an excellent companion to Optical Fiber Telecommunications IVB Systems and Impairments March 2002 ISBN 0 12 3951739 Fourth in a respected and comprehensive series Authoritative authors from a range of organizations Suitable for active lightwave R D designers developers purchasers operators students and analysts Lightwave components reviewed in Volume A Lightwave systems and impairments reviewed in Volume B Up to the minute coverage

Inorganic Reactions and Methods, Formation of Ceramics Jim D. Atwood, 2009-09-17 Kein anderes Werk bietet Ihnen diese Informationsf lle zu Reaktionen und Methoden der anorganischen Chemie in hnlich einheitlicher knapp zusammengefa ter hervorragend organisierter Form Neben Beitr gen aus allen Bereichen der anorganischen Chemie finden Sie in diesem Band eine tiefergehende Behandlung von Reaktionen zur Bindungskn pfung bersichtlich geordnet nach den beteiligten Elementen Ein Verbindungsregister er ffnet Ihnen verschiedene Alternativen zum schnellen zuverl ssigen Auffinden von Informationen 06 99

Fundamentals of Solid State Engineering Manijeh Razeghi, 2006-06-12 Fundamentals of Solid State Engineering 2nd Edition provides a multi disciplinary introduction to Solid State Engineering combining concepts from physics chemistry electrical engineering materials science and mechanical engineering Basic physics concepts are introduced followed by a thorough treatment of the technology for solid state engineering Topics include compound semiconductor bulk and epitaxial thin films growth techniques current semiconductor device processing and nano fabrication technologies Examples of semiconductor devices and a description of their theory of operation are then discussed including transistors semiconductor lasers and photodetectors Revised throughout this second edition includes new chapters on the reciprocal lattice optical properties of semiconductors semiconductor heterostructures semiconductor characterization techniques and an introduction to lasers Additions and improvements have been made to the material on photodetectors and quantum mechanics as well as to the problem sections

Semiconductor Nanostructures for Optoelectronic Applications Todd D. Steiner, 2004 Annotation Tiny structures measurable on the nanometer scale one billionth of a meter are known as nanostructures and nanotechnology is the emerging application of these nanostructures into useful nanoscale devices As we enter the 21st century more and more professional are using nanotechnology to create semiconductors for a variety of applications including communications information technology medical and transportation devices Written by today s best researchers of semiconductor nanostructures this cutting edge resource provides a snapshot of this exciting and fast changing field The book covers the latest advances in nanotechnology and discusses the applications of nanostructures to optoelectronics photonics and electronics

Synthesis of Inorganic Materials Ulrich Schubert, Nicola Hüsing, 2012-03-26 Due to their use and importance in many fields a great deal of research focuses on developing inorganic materials For example a computer contains many types of inorganic materials including the glass in the display or a layer of the LCD screen the metal wires and semiconductor materials in the chips and other electronic components Computers can even be powered by solar cells which also include

inorganic materials Zeolites also belong to this class and are found in applications ranging from catalysts to cat litter This third edition of the popular textbook contains 30% new and or revised content to reflect the latest developments in this fast developing field Written from the chemist s point of view the well known and experienced authors provide a thorough and pedagogical introduction now including example real life applications of the syntheses as well as new sections on nanomaterials templating methods and biomineralization A valuable resource for advanced undergraduates as well as masters and graduate students in inorganic chemistry and materials science *Materials Processing Handbook* Joanna R. Groza, James F. Shackelford, 2007-03-28 The field of materials science and engineering is rapidly evolving into a science of its own While traditional literature in this area often concentrates primarily on property and structure the *Materials Processing Handbook* provides a much needed examination from the materials processing perspective This unique focus reflects the changing complex Metal Organic Vapor Phase Epitaxy Growth Mechanisms of Gallium Antimonide and Compositional Grading in Pseudomorphic Gallium Arsenide Antimonide Films Brian Edmund Hawkins, 2004 The Physics of Semiconductors Marius Grundmann, 2010-11-11 Semiconductor electronics is commonplace in every household Semiconductor devices have also enabled economically reasonable fiber based optical communication optical storage and high frequency amplification and have recently revolutionized photography display technology and lighting Along with these tremendous technological developments semiconductors have changed the way we work communicate entertain and think The technological progress of semiconductor materials and devices is evolving continuously with a large worldwide effort in human and monetary capital For students semiconductors offer a rich diverse and exciting field with a great tradition and a bright future This book introduces students to semiconductor physics and semiconductor devices It brings them to the point where they can specialize and enter supervised laboratory research It is based on the two semester semiconductor physics course taught at Universität Leipzig in its Master of Science physics curriculum Since the book can be followed with little or no pre existing knowledge in solid state physics and quantum mechanics it is also suitable for undergraduate students For the interested reader some additional topics are included in the book that can be covered in subsequent more specialized courses The material is selected to provide a balance between aspects of solid state and semiconductor physics the concepts of various semiconductor devices and modern applications in electronics and photonics **Ein Beitrag zur Epitaxie von elektrooptischen Doppel-Heterostruktur Bauelementen** Stefan Neumann, 2009-02-04 **Quantum Metrology** Ernst O. Göbel, Uwe Siegener, 2015-06-10 The International System of Units SI is the world s most widely used system of measurement used every day in commerce and science and is the modern form of the metric system It currently comprises the meter m the kilogram kg the second s the ampere A the kelvin K the candela cd and the mole mol The system is changing though units and unit definitions are modified through international agreements as the technology of measurement progresses and as the precision of measurements improves The SI is now being redefined based on constants of nature and their realization by quantum

standards Therefore the underlying physics and technologies will receive increasing interest and not only in the metrology community but in all fields of science This book introduces and explains the applications of modern physics concepts to metrology the science and the applications of measurements A special focus is made on the use of quantum standards for the realization of the forthcoming new SI the international system of units The basic physical phenomena are introduced on a level which provides comprehensive information for the experienced reader but also provides a guide for a more intense study of these phenomena for students

Optimierung von III-V basierten Hochleistungssolarzellen Wolfgang Guter, 2011-01-21 Mehrfachsolarzellen aus III V Halbleiterverbindungen bieten die Möglichkeit Sonnenenergie besonders effizient in elektrische Energie umzuwandeln Im Rahmen dieser Arbeit werden Wirkungsgrade bis zu 41,1% demonstriert Für die terrestrische Nutzung werden solche Hochleistungssolarzellen in lichtkonzentrierte Systeme eingebaut was besondere Anforderungen an die Solarzelle stellt Der Schwerpunkt dieser Dissertation liegt auf der Kristallzucht verschiedener III V Solarzellenstrukturen sowie deren Anpassungen an das terrestrische Sonnenspektrum und an die hohen Lichtintensitäten in Konzentratorsystemen Neben gitterangepassten Solarzellenstrukturen werden Solarzellen mit spannungskompensierten Multi Quantenpunkten und metamorphe Tripelsolarzellen untersucht Ein besonderes Augenmerk liegt dabei auf der Entwicklung von Tunnelkontakten als Interzellularkontakte für Mehrfachsolarzellen unter hochkonzentriertem Licht

Festkörper Stefan Blügel, 2005 Der Band 6 Festkörperphysik beschließt sich in umfassender Weise wie kein zweites Buch mit dem gesamten Spektrum der Gebiete der Festkörperphysik mit Kristallen und Oberflächen mit Halbleitern und Magnetismus bis hin zur Supraleitung Jedes Kapitel wird von Experten auf diesem Gebiet dargestellt und umfasst die Grundlagen bis zu den Anwendungen unter Einbeziehung der neuesten Erkenntnisse Pluspunkte umfassende Behandlung aller theoretischen und anwendungsorientierten Probleme der Festkörperphysik geeignet als intensive Prüfungsvorbereitung umfangreiches Literaturverzeichnis im Anhang an jedes Kapitel

Handbook of Nanostructured Materials and Nanotechnology, Five-Volume Set Hari Singh Nalwa, 1999-10-29 Nanostructured materials is one of the hottest and fastest growing areas in today's materials science field along with the related field of solid state physics Nanostructured materials and their based technologies have opened up exciting new possibilities for future applications in a number of areas including aerospace automotive x ray technology batteries sensors color imaging printing computer chips medical implants pharmacy and cosmetics The ability to change properties on the atomic level promises a revolution in many realms of science and technology Thus this book details the high level of activity and significant findings are available for those involved in research and development in the field It also covers industrial findings and corporate support This five volume set summarizes fundamentals of nano science in a comprehensive way The contributors enlisted by the editor are at elite institutions worldwide Key Features Provides comprehensive coverage of the dominant technology of the 21st century Written by 127 authors from 16 countries making this truly international First and only reference to cover all aspects of nanostructured

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