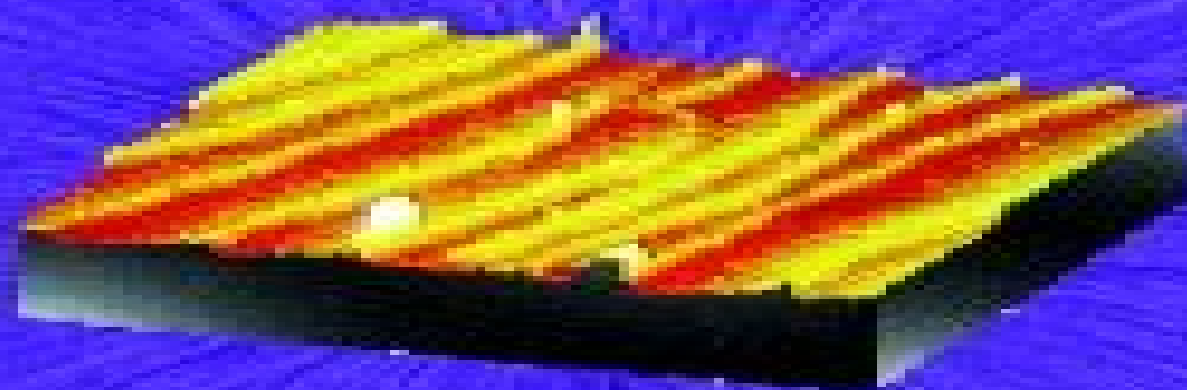


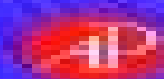
Organometallic Vapor-Phase Epitaxy

Theory and Practice



Gerald B. Stringfellow

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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 Methoden zur Defektreduktion von Galliumnitrid-Substraten und -Quasisubstraten Frank Stefan Habel, 2006-10-02 Das Material Galliumnitrid ist bereits heute f

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395 R. D. Dupuis, J. A. Edmond, S. Nakamura, F. A. Ponce, 1996-09-04 This book reflects the excitement in the scientific community about III V nitrides Based on papers presented at the First International Symposium on Gallium Nitride and Related Materials ISBN 1 it reveals the large amount of work that has taken place since the field exploded with the announcement of commercial blue light emitting devices The compound semiconductors in the III V nitride systems are of increasing interest for high performance optoelectronic and electronic device applications These wide bandgap semiconductor materials are also of great fundamental scientific interest because of their unique structural electrical and optical properties From the advances in the technologies for the heteroepitaxial growth of these materials leading to improved quality and device performance it is expected that III V nitrides will soon be of significant practical and commercial interest Topics include crystal growth substrates and early stages molecular beam growth techniques chemical vapor phase and alloys and novel growth techniques structural properties electronic properties optical properties point defects hydrogen etching and other materials processes surfaces and metal contacts and devices *Gallium Nitride and Related Materials*, 1996 **Kleinheubacher Berichte**, 1993 **Growth and Characterization of GaInAsP on GaAs Using Flow Modulation Epitaxy** Bobby Lee Pitts, 1994 **Encyclopedia of Inorganic Chemistry: T-Z** R. Bruce King, 2005

Proceedings of the 12th General Conference of the Condensed Matter Division of the European Physical Society European Physical Society. Condensed Matter Division. General Conference, V. Šmíd, European Physical Society. Condensed Matter Division, 1992 **Optoelectronic Materials: Volume 417** Eric D. Jones, Angelo Mascarenhas, Pierre Petroff, 1996-07-02 While the effects of spontaneous ordering or composition modulation on the properties of semiconductors and optoelectronic devices have been studied with great interest over the past several years an understanding of the physics and chemistry of these two related phenomena is still in its infancy This book brings together researchers from around the world to address issues concerning the physics chemistry and growth parameters for spontaneous ordering and composition modulation Developments in the use of artificial patterning to obtain new structured materials on a microscopic scale are featured Advances in characterization techniques are also presented Topics include spontaneous ordering self assembled structures and quantum dots self organized epitaxial structures composition modulation studies and optoelectronic materials

Type-II "W" Quantum Wells for Mid-infrared Emission Juno Yu-Ting Huang, 2008 *Thick Film, Orientation-patterned Gallium Arsenide for Nonlinear Optical Frequency Conversion* Paulina Susan Kuo, 2008 **GaN and Related Alloys: Volume 537** S. J. Pearton, 1999-09-14 This book covers the full spectrum of activity in the GaN and related materials arena These semiconductors are finding applications in full color displays high density information storage white lighting for outdoor or backlit displays solar blind UV detectors high power high temperature electronics and covert undersea communications Progress is being reported in the growth of thick layers on patterned substrates by various methods leading to lower overall defect concentrations and improved current voltage and reliability characteristics The rapidly increasing

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