

CHEMICAL VAPOR DEPOSITION

Principles and Applications

edited by

M.L. Hitchman AND K.F. Jensen

Chemical Vapor Deposition Principles And Applications

Xiu-Tian Yan, Yongdong Xu



Chemical Vapor Deposition Principles And Applications:

Chemical Vapor Deposition M. L. Hitchman, K. F. Jensen, 1993-04-13 This wide ranging volume covers recent developments in the theoretical understanding of the chemistry and physics of chemical vapour deposition CVD Contributors are drawn from both academia and industry to achieve a balanced coverage of the subject The volume emphasizes principles and understanding rather than details of specific materials or processes Specific examples are given to illustrate the principles

Handbook of Chemical Vapor Deposition (CVD) Hugh O. Pierson, 1992-01-01 A comprehensive overview of the principles technology and application of chemical vapor deposition CVD an extremely versatile process which can be used to manufacture coatings powders fibers and monolithic components It presents a clear objective systematic assessment of CVD including an e

Chemical Vapor Deposition for Microelectronics Arthur Sherman, 1987 Presents an extensive comprehensive study of chemical vapor deposition CVD Understanding CVD requires knowledge of fluid mechanics plasma physics chemical thermodynamics and kinetics as well as homogenous and heterogeneous chemical reactions This text presents these aspects of CVD in an integrated fashion and also reviews films for use in integrated circuit technology

Chemical Vapor Deposition Jong-Hee Park, T. S. Sudarshan, 2001 *Chemical Vapor Deposition*, 1995 **Chemical**

Vapour Deposition Xiu-Tian Yan, Yongdong Xu, 2010-03-23 Chemical Vapour Deposition An Integrated Engineering Design for Advanced Materials focuses on the application of this technology to engineering coatings and in particular to the manufacture of high performance materials such as fibre reinforced ceramic composite materials for structural applications at high temperatures This book aims to provide a thorough exploration of the design and applications of advanced materials and their manufacture in engineering From physical fundamentals and principles to optimization of processing parameters and other current practices this book is designed to guide readers through the development of both high performance materials and the design of CVD systems to manufacture such materials Chemical Vapour Deposition An Integrated Engineering Design for Advanced Materials introduces integrated design and manufacture of advanced materials to researchers industrial practitioners postgraduates and senior undergraduate students **Handbook of Chemical Vapor**

Deposition Hugh O. Pierson, 1999-01-15 Handbook of Chemical Vapor Deposition Principles Technology and Applications provides information pertinent to the fundamental aspects of chemical vapor deposition This book discusses the applications of chemical vapor deposition which is a relatively flexible technology that can accommodate many variations Organized into 12 chapters this book begins with an overview of the theoretical examination of the chemical vapor deposition process This text then describes the major chemical reactions and reviews the chemical vapor deposition systems and equipment used in research and production Other chapters consider the materials deposited by chemical vapor deposition This book discusses as well the potential applications of chemical vapor deposition in semiconductors and electronics The final chapter deals with ion implantation as a major process in the fabrication of semiconductors This book is a valuable resource for scientists

engineers and students Production and marketing managers and suppliers of equipment materials and services will also find this book useful

CVD of Compound Semiconductors Anthony C. Jones, Paul O'Brien, 2008-11-20 Chemical growth methods of electronic materials are the keystone of microelectronic device processing This book discusses the applications of metalorganic chemistry for the vapor phase deposition of compound semiconductors Vapor phase methods used for semiconductor deposition and the materials properties that make the organometallic precursors useful in the electronics industry are discussed for a variety of materials Topics included techniques for compound semiconductor growth metalorganic precursors for III V MOVPE metalorganic precursors for II VI MOVPE single source precursors chemical beam epitaxy atomic layer epitaxy Several useful appendixes and a critically selected up to date list of references round off this practical handbook for materials scientists solid state and organometallic chemists and engineers

Proceedings of the Thirteenth International Conference on Chemical Vapor Deposition Theodore M. Besmann, 1996 *Chemical Vapour Deposition* Anthony C. Jones, Michael L. Hitchman, 2009 The book is one of the most comprehensive overviews ever written on the key aspects of chemical vapour deposition processes and it is more comprehensive technically detailed and up to date than other books on CVD The contributing authors are all practising CVD technologists and are leading international experts in the field of CVD It presents a logical and progressive overview of the various aspects of CVD processes Basic concepts such as the various types of CVD processes the design of CVD reactors reaction modelling and CVD precursor chemistry are covered in the first few Jacket

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