

Microelectronics Processing

Inorganic Materials Characterization

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Microelectronic Processing Inorganic Materials Characterization

John R. Ferraro, Kazuo Nakamoto



Microelectronic Processing Inorganic Materials Characterization:

Microelectronics Processing Lawrence A. Casper, 1986-01-01 Surface Modeling Engineering Ram Kossowsky, 1989-07-31 These volumes present the general practitioners in engineering with a comprehensive discussion of technological surfaces their interactions with environments and the various modification techniques available to improve their performance In each subject applications to metals ceramics and polymers are emphasized The interactions with the environment are described corrosion chemical friction and waer mechanical and bioreactivity physiological Reviews of major modification schemes such as chemical vapor deposition physical vapor deposition laser beam interactions chemical infusion and ion implantation are presented In summary reviews of applications of the modification techniques to optimize the performances of structural components tools electronic devices and implantable medical devices manufactured out of metals ceramic and polymers are described *Proceedings of the Electrochemical Society Symposium on Diagnostic Techniques for Semiconductor Materials and Devices* P. Rai-Choudhury, 1997 *Semiconductor Material and Device Characterization* Dieter K. Schroder, 2015-06-29 This Third Edition updates a landmark text with the latest findings The Third Edition of the internationally lauded Semiconductor Material and Device Characterization brings the text fully up to date with the latest developments in the field and includes new pedagogical tools to assist readers Not only does the Third Edition set forth all the latest measurement techniques but it also examines new interpretations and new applications of existing techniques Semiconductor Material and Device Characterization remains the sole text dedicated to characterization techniques for measuring semiconductor materials and devices Coverage includes the full range of electrical and optical characterization methods including the more specialized chemical and physical techniques Readers familiar with the previous two editions will discover a thoroughly revised and updated Third Edition including Updated and revised figures and examples reflecting the most current data and information 260 new references offering access to the latest research and discussions in specialized topics New problems and review questions at the end of each chapter to test readers understanding of the material In addition readers will find fully updated and revised sections in each chapter Plus two new chapters have been added Charge Based and Probe Characterization introduces charge based measurement and Kelvin probes This chapter also examines probe based measurements including scanning capacitance scanning Kelvin force scanning spreading resistance and ballistic electron emission microscopy Reliability and Failure Analysis examines failure times and distribution functions and discusses electromigration hot carriers gate oxide integrity negative bias temperature instability stress induced leakage current and electrostatic discharge Written by an internationally recognized authority in the field Semiconductor Material and Device Characterization remains essential reading for graduate students as well as for professionals working in the field of semiconductor devices and materials An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department Handbook of Semiconductor Manufacturing Technology Yoshio

Nishi, Robert Doering, 2017-12-19 Retaining the comprehensive and in depth approach that cemented the bestselling first edition's place as a standard reference in the field the Handbook of Semiconductor Manufacturing Technology Second Edition features new and updated material that keeps it at the vanguard of today's most dynamic and rapidly growing field. Iconic experts Robert Doering and Yoshio Nishi have again assembled a team of the world's leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available. Stay Current with the Latest Technologies In addition to updates to nearly every existing chapter this edition features five entirely new contributions on Silicon on insulator SOI materials and devices Supercritical CO₂ in semiconductor cleaning Low dielectrics Atomic layer deposition Damascene copper electroplating Effects of terrestrial radiation on integrated circuits ICs Reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication IC packaging and 300 mm wafer fabrication While no book can be up to the minute with the advances in the semiconductor field the Handbook of Semiconductor Manufacturing Technology keeps the most important data methods tools and techniques close at hand

Microelectronics Processing L. A. Casper, 1986 Examines leading edge developments in the field of materials development Covers all major aspects of materials science with applications to many high technology areas Explores the role of chemistry in high tech materials and their applications **The Analytical Chemistry of Silicones** A. Lee Smith, I. M. Kolthoff, 1991-01-16 High Resolution Solid State NMR of Silicates and Zeolites Gunter Engelhardt and Dieter Michel I strongly recommend this book as an important reference for scientists concerned with the structural properties of siliceous materials Applied Spectroscopy This well organized and up to date text gives a thorough account of the wide range of applications of multinuclear high resolution solid state NMR spectroscopy in silicate and zeolite science with emphasis on the kinds of chemical information retrievable from NMR experiments 1988 0 471 91597 1 485 pp The Chemistry of Silica Solubility Polymerization Colloid and Surface Properties and Biochemistry Ralph K Iler A major component of the earth's solid surface and the constituent of sand silica an ageless natural staple is also integral to industries as diverse as chemistry biology medicine agriculture metallurgy and mining This landmark reference details the chemistry surrounding the research and development of silica as well as information on its production and production control 1979 0 471 02404 X 866 pp The Chemistry of Organic Silicon Compounds Parts 1 and 2 Edited by Saul Patai and Zvi Rappoport This volume will probably become the first reference consulted for C Si chemistry Choice This authoritative account of organic compounds containing carbon silicon bonds brings specialists up to date to the field's latest innovative turns The emphasis in this compilation of studies from 17 prominent researchers is on small molecules single bonds analysis structure synthesis spectroscopy and reaction mechanisms Part 1 1989 0 471 91441 X 892 pp Part 2 1989 0 471 91992 6 1 668 pp **Introductory Raman Spectroscopy** John R. Ferraro, Kazuo Nakamoto, 2012-12-02 Praise for Introductory Raman Spectroscopy Highlights basic

theory which is treated in an introductory fashion Presents state of the art instrumentation Discusses new applications of Raman spectroscopy in industry and research **Optical Characterization of Semiconductors** Sidney Perkowitz, 2012-12-02 This is the first book to explain illustrate and compare the most widely used methods in optics photoluminescence infrared spectroscopy and Raman scattering Written with non experts in mind the book develops the background needed to understand the why and how of each technique but does not require special knowledge of semiconductors or optics Each method is illustrated with numerous case studies Practical information drawn from the authors experience is given to help establish optical facilities including commercial sources for equipment and experimental details For industrial scientists with specific problems in semiconducting materials for academic scientists who wish to apply their spectroscopic methods to characterization problems and for students in solid state physics materials science and engineering and semiconductor electronics and photonics this book provides a unique overview bringing together these valuable techniques in a coherent way for the first time Discusses and compares infrared Raman and photoluminescence methods Enables readers to choose the best method for a given problem Illustrates applications to help non experts and industrial users with answers to selected common problems Presents fundamentals with examples from the semiconductor literature without excessive abstract discussion Features equipment lists and discussion of techniques to help establish characterization laboratories Microelectronics Processing L. A. Casper, 1986 Examines leading edge developments in the field of materials development Covers all major aspects of materials science with applications to many high technology areas Explores the role of chemistry in high tech materials and their applications *Surface and Interface Analysis of Microelectronic Materials Processing and Growth* L. J. Brillson, Fred H. Pollak, 1990 **Proceedings of the First International Symposium on Advanced Materials for ULSI** Martin P. Scott, Yoichi Akasaka, Rafael Reif, 1988 **Surface Analysis and Techniques in Biology** Vincent S. Smentkowski, 2014-03-18 This book summarizes the main surface analysis techniques that are being used to study biological specimens systems The compilation of chapters in this book highlight the benefits that surface analysis provides The outer layer of bulk solid or liquid samples is referred to as the surface of the sample material At the surface the composition microstructure phase chemical bonding electronic states and or texture is often different than that of the bulk material The outer surface is where many material interactions reactions take place This is especially true biomaterials which may be fabricated into bio devices and in turn implanted into tissues and organs Surfaces of biomaterials synthetic or modified natural materials are of critical importance since the surface is typically the only part of the biomaterial bio device that comes in contact with the biological system Analytical techniques are required to characterize the surface of biomaterials and quantify their impact in real world biological systems Surface analysis of biological materials started in the 1960 s and the number of researchers working in this area have increased very rapidly since then a number of advances have been made to standard surface analytical instrumentation and a number of new

instruments have been introduced *Semiconductor Fabrication* Dinesh C. Gupta, 1989 *Proceedings of the Symposium on Multilevel Metallization, Interconnection, and Contact Technologies* L. B. Rothman, T. Herndon, 1987 Microelectronics Processing Dennis W. Hess, Klavs F. Jensen, 1989 Although chemical engineering principles are at the heart of solid state process technology until now no reference volume addressing this relationship was available This is the first book of its kind to tie fundamental engineering concepts to solid state process technology Discussing the basic concepts involved liquid phase epitaxy physical and chemical vapor deposition diffusion and oxidation in silicon resists in microlithography etc this volume will be particularly useful in chemical engineering courses It offers a framework within which specialized courses in microelectronics processing can be organized In addition it serves as a valuable reference source for all industrial engineers working with the individual process steps covered

Beam Effects, Surface Topography, and Depth Profiling in Surface Analysis Alvin W. Czanderna, Theodore E. Madey, Cedric J. Powell, 2006-04-11 Many books are available that detail the basic principles of the different methods of surface characterization On the other hand the scientific literature provides a resource of how individual pieces of research are conducted by particular laboratories Between these two extremes the literature is thin but it is here that the present volume comfortably sits Both the newcomer and the more mature scientist will find in these chapters a wealth of detail as well as advice and general guidance of the principal phenomena relevant to the study of real samples In the analysis of samples practical analysts have fairly simple models of how everything works Superimposed on this ideal world is an understanding of how the parameters of the measurement method the instrumentation and the characteristics of the sample distort this ideal world into something less precise less controlled and less understood The guidance given in these chapters allows the scientist to understand how to obtain the most precise and understood measurements that are currently possible and where there are inevitable problems to have clear guidance as the extent of the problem and its likely behavior

Handbook of Silicon Wafer Cleaning Technology Karen Reinhardt, Werner Kern, 2008-12-10 The second Edition of the Handbook of Silicon Wafer Cleaning Technology is intended to provide knowledge of wet plasma and other surface conditioning techniques used to manufacture integrated circuits The integration of the clean processes into the device manufacturing flow will be presented with respect to other manufacturing steps such as thermal implant etching and photolithography processes The Handbook discusses both wet and plasma based cleaning technologies that are used for removing contamination particles residue and photoresist from wafer surfaces Both the process and the equipment are covered A review of the current cleaning technologies is included Also advanced cleaning technologies that are under investigation for next generation processing are covered including supercritical fluid laser and cryoaerosol cleaning techniques Additionally theoretical aspects of the cleaning technologies and how these processes affect the wafer is discussed such as device damage and surface roughening will be discussed The analysis of the wafers surface is outlined A discussion of the new materials and the changes required for the surface conditioning process used for

manufacturing is also included Focused on silicon wafer cleaning techniques including wet plasma and other surface conditioning techniques used to manufacture integrated circuits As this book covers the major technologies for removing contaminants it is a reliable reference for anyone that manufactures integrated circuits or supplies the semiconductor and microelectronics industries Covers processes and equipment as well as new materials and changes required for the surface conditioning process Editors are two of the top names in the field and are both extensively published Discusses next generation processing techniques including supercritical fluid laser and cryoaerosol

Handbook for Cleaning for Semiconductor Manufacturing Karen A. Reinhardt, Richard F. Reidy, 2011-04-12 Provides an In depth discussion of surface conditioning for semiconductor applications The Handbook of Cleaning for Semiconductor Manufacturing Fundamentals and Applications provides an in depth discussion of surface conditioning for semiconductor applications The fundamental physics and chemistry associated with wet processing is reviewed as well as surface and colloidal aspects of cleaning and etching Topics covered in this new reference include Front end line FEOL and back end of line BEOL cleaning applications such as high k metal gate post etch cleaning and pore sealing high dose implant stripping and cleaning and germanium and silicon passivation Formulation development practices methodology and a new directions are presented including chemicals used for preventing corrosion of copper lines cleaning aluminium lines reclaiming wafers and water bonding as well as the filtering and recirculating of chemicals including reuse and recycling Wetting cleaning and drying of features such as high aspect ratio features and hydrophilic surface states especially how to dry without watermarks the abilities to wet hydrophobic surfaces and to remove liquid from deep features The chemical reactions and mechanisms of silicon dioxide etching with hydrofluoric acid particle removal with ammonium hydroxide hydrogen peroxide mixture and metal removal with hydrochloric acid The Handbook of Cleaning for Semiconductor Manufacturing Fundamentals and Applications is a valuable resource for any engineer or manager associated with using or supplying cleaning and contamination free technologies for semiconductor manufacturing Engineers working for semiconductor manufacturing capital equipment chemicals or other industries that assures cleanliness of chemicals material and equipment in the manufacturing area will also find this handbook an indispensable reference

Particles on Surfaces 2 K.L. Mittal, 2012-12-06 This volume documents the proceedings of the Second Symposium on Particles on Surfaces Detection Adhesion and Removal held as part of the 19th Annual Meeting of the Fine Particle Society in Santa Clara California July 20 25 1988 The premier symposium on this topic was organized in 1986 and has been properly chronicled Based on the success of these two events and the high interest evinced by the technical community we plan to regularly hold symposia on this topic on a biennial basis and the next one is slated for August 20 24 1990 in San Diego California As pointed out in the Preface to the first volume the topic of particles on surfaces is of paramount importance in legion of technological areas Particularly in the semiconductor device fabrication area all signals indicate that the understanding of the behavior of particles on surfaces and their removal will attain

heightened importance in the times to come As the device dimensions are shrinking at an accelerated pace so the benign particles of today will become the killer defects in the not too distant future The tempo of research and development activity in the field of particles on surfaces is very high and better and novel ways are continuously being devised to remove smaller and smaller particles

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