

# **Microelectronics Processing**

## **Inorganic Materials Characterization**

**EDITED BY  
Lawrence A. Casper**

**ACS Symposium Series**

**295**

# Microelectronic Processing Inorganic Materials Characterization

**A. Lee Smith, I. M. Kolthoff**



## **Microelectronic Processing Inorganic Materials Characterization:**

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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 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 **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 **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

*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 **Journal of Research of the National Institute of Standards and Technology**, 1993 Characterization of Semiconductor Materials, Volume 1 G. E. McGuire, 1989-12-31 Characterization of semiconductor materials and methods used to characterize them will be described extensively in this new Noyes series Written by experts in each subject area the series will present the most up to date information available in this rapidly advancing field Includes chapters on Electrical Characterization Ion Mass Spectrometry Photoelectron Spectroscopy Ion Solid Interactions and more *Publications* United States. National Bureau of Standards, 1987 *Handbook of Neutron Activation Analysis* Susan J. Parry, 2003 **Activation Spectrometry in Chemical Analysis** Susan J. Parry, 1991-10-04 Of related interest Radiochemistry and Nuclear Methods of Analysis William D Ehmann and Diane Vance Here is a concise review of the state of the art in radio chemistry and nuclear methods of analysis It provides a thorough look at the fundamentals of radiochemistry as well as the specific applications of nuclear techniques to analytical chemistry There is also considerable coverage of the current nuclear methods of analysis such as

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**Semiconductor Characterization** W. Murray Bullis,David G. Seiler,Alain C. Diebold,1996 Market Those in government industry and academia interested in state of the art knowledge on semiconductor characterization for research development and manufacturing Based on papers given at an International Nist Workshop in January 1995 Semiconductor Characterization covers the unique characterization requirements of both silicon IC development and manufacturing and compound semiconductor materials devices and manufacturing Additional sections discuss technology trends and future requirements for compound semiconductor applications Also highlighted are recent developments in characterization including in situ in FAB and off line analysis methods The book provides a concise effective portrayal of industry needs and problems in the important specialty of metrology for semiconductor technology **Neutron Scattering for Materials Science: Volume 166** S. M. Shapiro,S. C. Moss,J. D. Jorgensen,1990-04-11 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Optical Characterization of Semiconductors** Sidney Perkowitz,1993-10-28 Practical information is given to help establish optical facilities including commercial sources for equipment and experimental details which draw on the author s wide experience *Handbook of Semiconductor Wafer Cleaning Technology* Werner Kern,1993-12-31 Discusses semiconductor wafer cleaning and the

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