

Characterization of Solid Surfaces

Edited by

Philip F. Kane and Graydon B. Larrabee

 Springer

Characterization Of Solid Surfaces

Luigia Sabbatini



Characterization Of Solid Surfaces:

Characterization of Solid Surfaces Philip F. Kane, Graydon B. Larrabee, 2013-11-27 Until comparatively recently trace analysis techniques were in general directed toward the determination of impurities in bulk materials. Methods were developed for very high relative sensitivity and the values determined were average values. Sampling procedures were devised which eliminated the so-called sampling error. However, in the last decade or so a number of developments have shown that for many purposes the distribution of defects within a material can confer important new properties on the material. Perhaps the most striking example of this is given by semiconductors: a whole new industry has emerged in barely twenty years based entirely on the controlled distribution of defects within what a few years before would have been regarded as a pure homogeneous crystal. Other examples exist in biochemistry, metallurgy, polymers, and of course catalysis. In addition to this, of the importance of distribution, there has also been a recognition growing awareness that physical defects are as important as chemical defects. We are of course using the word defect to imply some discontinuity in the material and not in any derogatory sense. This broadening of the field of interest led the Materials Advisory Board I to recommend a new definition for the discipline Materials Characterization to encompass this wider concept of the determination of the structure and composition of materials. In characterizing a material, perhaps the most important special area of interest is the surface.

Characterization of Solid Surfaces Philip F. Kane, Graydon B. Larrabee, 1974

Characterization of Solid Surfaces P.F. Kane, G.B. Larrabee, 1976

Characterization of Solid Surfaces, Edited by Philip F. Kane and Graydon B. Larrabee Philip F. Kane, Graydon B. Larrabee, 1974

Microstructure and Thermal Analysis of Solid Surfaces Raouf Shaker Mikhail, Erich Robens, 1983

Elemental and Chemical Characterization of Solid Surfaces with Soft X-Ray Appearance Potential Spectroscopy Merrill B. Chamberlain, William L. Baun, AIR FORCE MATERIALS LAB WRIGHT-PATTERSON AFB OHIO., 1974

A study on the suitability of using a soft x-ray appearance potential spectrometer as a measurement tool for characterizing elemental and chemical species on solid surfaces has been completed. Two principal objectives of the research have been: 1) to assess such characterization capabilities for analysis of materials that are of interest to ongoing research and development programs of the Air Force Materials Laboratory and 2) to demonstrate experimental techniques which improve the instrumentation. The authors present and interpret experimental measurements that show: 1) this technique is sensitive to the molecular state of titanium atoms in several compounds; 2) the sensitivity of SXAPS to different elements depends strongly upon the atomic number; 3) one major reason which explains much of this Z dependence is the excitation of threshold resonant x-rays at some core levels in many elements; and 4) there is available experimental apparatus which can be used to significantly improve the signal to noise ratio in the observed spectra.

Characterization of Solid Surfaces and Interactions at the Solid/Gas and Solid/Liquid Interfaces. Relevance to Particle Technology G. D. Parfitt, 1982

Surface Characterization Methods Andrew J. Milling, 1999-08-03

Outlines the scientific basis and experimental methods for a broad sample of surface

analysis techniques drawing heavily from established principles of physical and analytical chemistry Sketches a simple low cost method of tracking particles in three dimensions

Characterization of the Acid-base Energetics of Solid Surfaces Pauline Neva Jacob,1994 Engineering and Characterization of Functionalized Solid Surfaces for Environmental and Health Applications Jie Dong,2008 Preparation and characterization of ultrathin organic films on solid surfaces Huey C. Yang,1993 **Specimen Handling, Preparation, and Treatments in Surface Characterization** Alvin W. Czanderna,Cedric J. Powell,Theodore E. Madey,2006-04-11

With the development in the 1960s of ultrahigh vacuum equipment and techniques and electron X ray and ion beam techniques to determine the structure and composition of interfaces activities in the field of surface science grew nearly exponentially Today surface science impacts all major fields of study from physical to biological sciences from physics to chemistry and all engineering disciplines The materials and phenomena characterized by surface science range from se conductors where the impact of surface science has been critical to progress to metals and ceramics where selected contributions have been important to bio terials where contributions are just beginning to impact the field to textiles where the impact has been marginal With such a range of fields and applications questions about sample selection preparation treatment and handling are difficult to cover completely in one review article or one chapter Therefore the editors of this book have assembled a range of experts with experience in the major fields impacted by surface characterization It is the only book which treats the subject of sample handling preparation and treatment for surface characterization It is full of tricks cautions and handy tips to make the laboratory scientist s life easier With respect to organization of the book the topics range from discussion of vacuum to discussion of biological organic elemental or compound samples to samples prepared ex situ or in situ to the vacuum to deposition of thin films Generic considerations of sample preparation are also given Surfaces and Interfaces of Solids Hans Lüth,2013-11-27

Surfaces and Interfaces of Solids emphasizes both experimental and theoretical aspects of surface and interface physics Beside the techniques of preparing well defined solid surfaces and interfaces basic models for the description of structural vibronic and electronic properties of interfaces are described as well as fundamental aspects of adsorption and layer growth Because of its importance for modern microelectronics special emphasis is placed on the electronic properties of semiconductor interfaces and heterostructures Experimental topics covering the basics of ultrahigh vacuum technology electron optics surface spectroscopies and electrical interface characterization techniques are presented in the form of separate panels

Quantitative Analysis of Solid Surfaces by Auger Electron Spectroscopy Aleksander Jabłoński,Instytut Chemii Fizycznej (Polska Akademia Nauk). Zakład Katalizy na Metalach,1982 **Polymer Surface Characterization** Luigia Sabbatini,2014-07-28

Polymer Surface Characterization provides a comprehensive approach to the surface analysis of polymers of technological interest by means of modern analytical techniques Basic principles operative conditions applications performance and limiting features are supplied together with current advances in instrumental apparatus Each

chapter is devoted to one technique and is self consistent the end of chapter references would allow the reader a quick access to more detailed information After an introductory chapter techniques that can interrogate the very shallow depth of a polymer surface spanning from the top few angstroms in secondary ions mass spectrometry to 2 10 nm in X ray photoelectron spectroscopy are discussed followed by Fourier transform infrared spectroscopy and chapters on characterization by scanning probe microscopy electron microscopies wettability and spectroscopic ellipsometry

Surfaces and Interfaces of Solid Materials Hans Lüth,2012-11-30 *Surfaces and Interfaces of Solid Materials* emphasises both experimental and theoretical aspects of surface and interface physics Beside the techniques of preparing well defined solid surfaces and interfaces basic models for the description of structural vibronic and electronic properties of interfaces are described as well as fundamental aspects of adsorption and layer growth Because of its importance for modern microelectronics special emphasis is placed on the electronic properties of semiconductor interfaces and heterostructures Experimental topics covering the basics of ultrahigh vacuum technology electron optics surface spectroscopies and electrical interface characterization techniques are presented in the form of separate panels

Characterization of Organic Species on Solid Surfaces Using 252cf Plasma Desorption Mass Spectrometry Joseph Alden Bennett,1989 *Ion Spectroscopies for Surface Analysis* Alvin W. Czanderna,David M. Hercules,2012-12-06

Determining the elemental composition of surfaces is an essential measurement in characterizing solid surfaces At present many approaches may be applied for measuring the elemental and molecular composition of a surface Each method has particular strengths and limitations that often are directly connected to the physical processes involved Typically atoms and molecules on the surface and in the near surface region may be excited by photons electrons ions or neutrals and the detected particles are emitted ejected or scattered ions or electrons The purpose of this book is to bring together a discussion of the surface compositional analysis that depends on detecting scattered or sputtered ions and the methods emphasized are those where instruments are commercially available for carrying out the analysis For each topic treated the physical principles instrumentation qualitative analysis artifacts quantitative analysis applications opportunities and limitations are discussed The first chapter provides an overview of the role of elemental composition in surface science compositional depth profiling stimulation by an electric field electrons neutrals or photons and detection of ions and then stimulation by ions and detection of ions electrons photons or neutrals

Characterization of the Wettability of Solid Particles by Film Flotation Jianli Diao,1987 [Photoacoustic Spectroscopy for the Characterization of Thin Films on Solid Surfaces](#) David Zeno Hursh,1978

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