

How Does Auger Electron Spectroscopy Work

Martin Prutton, Mohamed M. El Gomati

Auger Electron Spectroscopy John Wolstenholme, 2015-07-28 This book discusses the use of AES and SAM for the characterization of a wide range of technological materials. These include metals and alloys, semiconductors, nanostructures, and insulators. Its value as a tool for high-resolution elemental imaging and compositional depth profiling is illustrated. The application of the technique for obtaining compositional information from the surfaces, interfaces, and thin film structures of technological and engineering materials is demonstrated. This volume also describes the basic physical principles of AES in simple, largely qualitative, terms understandable by any undergraduate science or engineering student. Major components of typical Auger spectrometers are also described because an understanding of the instrumentation is important to anyone wishing to become a skilled analyst. Mention is also made of other types of analysis for which an Auger electron spectrometer may be used, for example, secondary electron microscopy, backscattered electron imaging, X-ray spectroscopy. The relationship between AES and other analysis techniques is also discussed.

Auger Electron Spectroscopy C.L. Briant, 2012-12-02 Treatise on Materials Science and Technology, Volume 30: Auger Electron Spectroscopy examines Auger electron spectroscopy and its various uses, emphasizing both theoretical and experimental studies. This book discusses the historical development of Auger electron spectroscopy, studies of surface segregation kinetics by Auger electron spectroscopy, and local electronic structure information in Auger electron spectroscopy. The metallurgical applications of Auger electron spectroscopy and Auger photoelectron coincidence spectroscopy are also elaborated. Other topics include the measurement of surface segregation kinetics by Auger electron spectroscopy, tempered martensite embrittlement, embrittlement of nonferrous alloys, and analysis of particle-matrix interfaces. The high-resolution scanning Auger electron spectroscopy, corrosion and stress corrosion cracking, and APECS instrumentation are likewise covered in this publication. This volume is suitable for researchers and electrical engineering students conducting work on Auger electron spectroscopy.

Auger Electron Spectroscopy Reference Manual G. McGuire, 2013-03-09 Auger electron spectroscopy (AES) is based on the Auger total secondary electron energy distribution, and an ion gun to process, which involves the core-level ionization of an atom with provide depth profiling capability. subsequent deexcitation occurring by an outer-level electron de The high surface sensitivity of Auger spectroscopy which dictates caying to fill the core hole. The excess energy is transferred to the

need for an ultrahigh-vacuum system is due to the limited mean free path of electrons in the 0-3000 eV kinetic energy range. The Auger electron transition, denoted by $E_K - E_L - E_L$, is independent of the excitation energy, which is consistent with an exponential dependence of source and leaves the atom with a constant kinetic energy. The escape probability on the depth of the parent atom. A compilation of data from a variety of sources has been used to generate the three levels (for example, $E_K - E_L - E_L$) minus a correction for an escape depth curve which falls in the range of 5-30 Å in the term for the work function and electron wave function relaxation. energy range from 0 to 3000 eV. The observed escape depth does not show a strong dependence on the matrix.

Photoelectron and Auger Spectroscopy Thomas Carlson, 2013-11-11 In 1970 when I first seriously contemplated writing a book on electron spectroscopy, I recognized the impossibility of completely reaching my desired goals. First, the field was expanding (and still is) at such a rate that a definitive statement of the subject is not possible. The act of following the literature comprehensively and summarizing its essential content proved to be a divergent series. On the other hand, the field has increased to such a size that violent changes in its basic makeup no longer occur with the frequency that was present in its early days. Furthermore, the excitement of electron spectroscopy lies in its many-faceted interrelationships. In the era of specialization, electron spectroscopy is an open-ended subject continually bringing together new aspects of science. I wished to discuss not just one type of electron spectroscopy, but as many as would be possible. The book as it stands concentrates its attention on x-ray photoelectron spectroscopy, but also presents the basis of Auger electron spectroscopy and uv photoelectron spectroscopy, as well as mentioning many of the other branches of the field. A large, many-author volume might be an answer to some of these problems. However, though anyone person possesses only a limited amount of expertise, I have always enjoyed books by a single author since what they lack in detailed knowledge they gain in a unified viewpoint. I hope the final product, though limited in its attainment of these goals, will still be of some merit.

Auger Electron Spectroscopy Donald T. Hawkins, 2012-12-06 Auger electron spectroscopy is rapidly developing into the single most powerful analytical technique in basic and applied science for investigating the chemical and structural properties of solids. Its explosive growth beginning in 1967 was triggered by the development of Auger analyzers capable of detecting one atom layer of material in a fraction of a second. Continued growth was guaranteed firstly by the commercial availability of apparatus which combined the capabilities of scanning electron microscopy and ion-mill depth profiling with Auger analysis, and secondly by the increasing need to know the atomistics of many processes in fundamental research and engineering applications. The expanding use of Auger analysis was accompanied by an increase in the number of publications dealing with it. Because of the developing nature of Auger spectroscopy, the articles have appeared in many different sources

covering diverse disciplines, so that it is extremely difficult to discover just what has or has not been subjected to Auger analysis. In this situation, a comprehensive bibliography is obviously useful to those both inside and outside the field. For those in the field, this bibliography should be a wonderful time saver for locating certain references, in researching a particular topic, or when considering various aspects of instrumentation or data analysis. This bibliography not only provides the most complete listing of references pertinent to surface Auger analysis available today, but it is also a basis for extrapolating from past trends to future expectations.

Auger- and X-Ray Photoelectron Spectroscopy in Materials Science Siegfried Hofmann, 2012-10-25 To anyone who is interested in surface chemical analysis of materials on the nanometer scale, this book is prepared to give appropriate information. Based on typical application examples in materials science, a concise approach to all aspects of quantitative analysis of surfaces and thin films with AES and XPS is provided. Starting from basic principles which are step by step developed into practically useful equations, extensive guidance is given to graduate students as well as to experienced researchers. Key chapters are those on quantitative surface analysis and on quantitative depth profiling, including recent developments in topics such as surface excitation parameter and backscattering correction factor. Basic relations are derived for emission and excitation angle dependencies in the analysis of bulk material and of fractional nano-layer structures, and for both smooth and rough surfaces. It is shown how to optimize the analytical strategy, signal-to-noise ratio, certainty and detection limit. Worked examples for quantification of alloys and of layer structures in practical cases (e.g. contamination, evaporation, segregation and oxidation) are used to critically review different approaches to quantification with respect to average matrix correction factors and matrix relative sensitivity factors. State-of-the-art issues in quantitative, destructive and non-destructive depth profiling are discussed with emphasis on sputter depth profiling and on angle resolved XPS and AES. Taking into account preferential sputtering and electron backscattering corrections, an introduction to the mixing-roughness-information depth (MRI) model and its extensions is presented.

An Introduction to Surface Analysis by XPS and AES John F. Watts, John Wolstenholme, 2019-08-15 Provides a concise yet comprehensive introduction to XPS and AES techniques in surface analysis This accessible second edition of the bestselling book, *An Introduction to Surface Analysis by XPS and AES*, 2nd Edition explores the basic principles and applications of X-ray Photoelectron Spectroscopy (XPS) and Auger Electron Spectroscopy (AES) techniques. It starts with an examination of the basic concepts of electron spectroscopy and electron spectrometer design, followed by a qualitative and quantitative interpretation of the electron spectrum. Chapters examine recent innovations in instrument design and key applications in metallurgy, biomaterials, and electronics. Practical and concise, it includes compositional depth profiling; multi-technique analysis; and everything about samples—including their handling, preparation, stability, and more. Topics discussed in more depth include peak fitting, energy loss background analysis, multi-technique analysis, and multi-technique profiling. The book

finishes with chapters on applications of electron spectroscopy in materials science and the comparison of XPS and AES with other analytical techniques. Extensively revised and updated with new material on NAPXPS, twin anode monochromators, gas cluster ion sources, valence band spectra, hydrogen detection, and quantification Explores key spectroscopic techniques in surface analysis Provides descriptions of latest instruments and techniques Includes a detailed glossary of key surface analysis terms Features an extensive bibliography of key references and additional reading Uses a non-theoretical style to appeal to industrial surface analysis sectors An Introduction to Surface Analysis by XPS and AES, 2nd Edition is an excellent introductory text for undergraduates, first-year postgraduates, and industrial users of XPS and AES.

An Introduction to Surface Analysis by Electron Spectroscopy John F. Watts, 1990 Surface analysis--the examination of the outer few nanometers of a material--is a routine undertaking in laboratories throughout the world, and is of great importance in such areas as corrosion, adhesion, polymer surface treatment, and microelectronics fabrication. This handbook provides an introduction to the two most popular surface analysis techniques: X-ray photoelectron spectroscopy and Auger electron spectroscopy. It explains the underlying physical principles, discusses instrumentation, and looks at the interpretation of resulting spectra. Applications of the two techniques are considered, and a critical comparison with other available methods is also included. This fully illustrated guide will be a valuable introduction for students and researchers in physics, engineering, and materials science.

Determination of the Surface Composition of Binary Alloys by Auger Electron Spectroscopy Steven Henry Overbury, 1976

Surface Studies of Thermionic Cathodes and the Mechanism of Operation of an Impregnated Tungsten Cathode Ralph Forman, 1976

Scanning Auger Electron Microscopy Martin Prutton, Mohamed M. El Gomati, 2006-05-01 This eagerly-awaited volume has been edited by two academic researchers with extensive and reputable experience in this field. Emphasis is given to the underlying science of the method of Auger microscopy, and its instrumental realization, the visualization and interpretation of the data in the sets of the images that form the output of the measurements and the methods used to quantify the images. Imaging artefacts in Auger microscopy and methods to correct them are also detailed. The authors describe the technique of Multi-Spectral Auger Microscopy (MULSAM) and demonstrate its advantages in mapping complex multi-component surfaces. The book concludes with an outlook for the future of Auger microscopy.

Auger Electron Spectroscopy in the Scanning Electron Microscope Waldrop, JR., HL. Marcus, 1973 Recent work devoted to high-spatial resolution (submicron) chemical analysis of solid surfaces by using Auger electron spectroscopy (AES) in a scanning electron microscope (SEM) is reviewed. Particular attention is given to the description of a computerized AES-SEM system and its use. Examples of applications are given, with emphasis on those in the fields of metallurgy and solid-state semiconductor devices.

ASTM Standardization News American Society for Testing and Materials,1982

Characterization of Fly-ash and Related Metal Oxides Using Auger Electron Spectroscopy Stanford University. Electronics Laboratories,1977

Composites Technology Review ,1981

Adsorption-desorption Phenomena F. Ricca,1972

Soviet Physics ,1986

Japanese Journal of Applied Physics ,2005

Scientific and Technical Aerospace Reports ,1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Ultraviolet Photoelectron and Photoion Spectroscopy, Auger Electron Spectroscopy, Plasma Excitation in Spectrochemical Analysis G. Svehla,2012-12-02 Ultraviolet Photoelectron and Photoion Spectroscopy, Auger Electron Spectroscopy, Plasma Excitation in Spectrochemical Analysis

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