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Using XPS for Industrial Problem Solving *Electron spectroscopy*

Lecture 2 – XPS and AES XPES // X- Ray Photoelectron Spectroscopy
~~Auger And X Ray Photoelectron~~

X-ray photoelectron spectroscopy and Auger electron spectroscopy.
For XPS and AES the primary process is an ionization caused by
either a photon or an electron, $m + h\nu \rightarrow m^+ + e^-$, or $m + e^- \rightarrow m^+ + e^-$

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$+* + 2e^-$, where m is an atom in the material.

~~X-ray photoelectron spectroscopy and Auger electron ...~~

Buy Auger- and X-Ray Photoelectron Spectroscopy in Materials Science: A User-Oriented Guide (Springer Series in Surface Sciences) 2013 by Hofmann, Siegfried (ISBN: 9783642273803) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

~~Auger and X-Ray Photoelectron Spectroscopy in Materials ...~~

Auger electron spectroscopy is a common analytical technique used specifically in the study of surfaces and, more generally, in the area of materials science. Underlying the spectroscopic technique is the Auger effect, as it has come to be called, which is based on the

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analysis of energetic electrons emitted from an excited atom after a series of internal relaxation events. The Auger effect was discovered independently by both Lise Meitner and Pierre Auger in the 1920s. Though the discovery was

~~Auger electron spectroscopy - Wikipedia~~

This article is cited by 51 publications. Rolf David, Aashish Tuladhar, Le Zhang, Christopher Arges, Revati Kumar. Effect of Oxidation Level on the Interfacial Water at the Graphene Oxide-Water Interface: From Spectroscopic Signatures to Hydrogen-Bonding Environment.

~~Surface analysis: x-ray photoelectron spectroscopy, Auger ...~~

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A User-Oriented Guide. Authors: Hofmann, Siegfried Free Preview. This is the most comprehensive book available on this widely used analytical technique; Buy this book eBook 139,09 € ...

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A User-Oriented Guide

~~Auger and X-Ray Photoelectron Spectroscopy in Materials ...~~

X-ray photoemission spectroscopy (XPS) and auger electron spectroscopy (AES) were performed using the LAS-3000 surface analysis system (RIBER, France). XPS measurements were carried out using Al-K α X-rays (1489.6 eV, width 0.85 eV), the energy scale of the spectrometer has been calibrated with pure Cu samples,

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and the pressure in the XPS analysis chamber was 1×10^{-7} Pa.

~~X-ray photoelectron spectroscopy and auger electron ...~~

X-ray photoelectron, Auger electron and ion fragment spectra of O₂ and potential curves of O₂⁺ January 1999 Journal of Physics B Atomic Molecular and Optical Physics 23(7):1175

~~(PDF) X-ray photoelectron, Auger electron and ion fragment ...~~

A convenient measure of surface sensitivity in Auger-electron spectroscopy (AES) and X-ray photoelectron spectroscopy (XPS) is the mean escape depth (MED).

~~What are differences between X-ray Photoelectron ...~~

X-Ray Photoelectron Spectroscopy. XPS is a surface chemical

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analysis technique that can be used to analyze the surface chemistry of a material in its “as received” state, or after some treatment, for example, fracturing, cutting, or scraping in air or UHV exposure, ion beam etching to clean off some of the surface contamination, exposure to heat to study the changes due to heating ...

~~X-Ray Photoelectron Spectroscopy—an overview ...~~

X-ray photoelectron spectroscopy (XPS) is a surface-sensitive quantitative spectroscopic technique based on the photoelectric effect that can identify the elements that exist within a material (elemental composition) or are covering its surface, as well as their chemical state, and the overall electronic structure and density of the electronic states in the material.

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~~X-ray photoelectron spectroscopy - Wikipedia~~

various surface and near-surface analytical techniques, such as X-ray photoelectron spectroscopy (XPS), Auger spectroscopy, SEM, neutron reflectometry, and others. XPS, in particular, has been essential for the characterization of the chemistries involved with thin oxide film growth.[3] The need for improved XPS analysis of

~~Advanced analysis of copper X-ray photoelectron spectra~~

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~~Practical Surface Analysis: Auger and X-ray Photoelectron ...~~

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Abstract. X-Ray photoelectron spectroscopy (XPS) is the most widely used surface analysis technique when information about the chemical status of the atoms, rather than high lateral resolution or low limits of detection, must accompany elemental analysis of the outermost atomic layers of a given specimen.

~~X-Ray Photoelectron Spectroscopy: Principles ...~~

The use of photons in and electrons out provides X-ray photoelectron spectroscopy (XPS, or electron spectroscopy for chemical analysis [ESCA]). Electrons in and out gives Auger electron spectroscopy (AES).

~~Surface analysis | chemistry | Britannica~~

X: atomic density of analyzed species in sample $s = s_{\text{tot}} \cdot f(X,a)$

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with $f(X,a) = 1 + (b(X)/4) (1 - 3\cos 2a)$ * s tot: total ionisation cross section
f: form function accounting for asymmetry of peak
b: asymmetry parameter
a: angle between photon beam and emitted electron (different for standard x-ray source and synchrotron)

~~Photoelectron Spectroscopy~~

Surface sensitive spectroscopic methods, like Auger Electron Spectroscopy (AES), Low Energy Ion Scattering Spectroscopy (LEISS) and especially X-ray or UV excited Photoelectron Spectroscopy (XPS and UPS) became powerful tools to characterize the surface chemical composition, the chemical state of the surface electrons and the electronic properties of materials surfaces.

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X-ray photoelectron spectroscopy (XPS) (Chapter 11), another core-level electron spectroscopy. Auger electron spectroscopy has a depth resolution of 5–25 Å, and can be used, with simultaneous ion sputtering, for depth profiling. With a lateral resolution (< 100 Å) that is significantly better than

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