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@inproceedings{Briggs1983PracticalSA, title={Practical surface analysis: By auger and x-ray photoelectron spectroscopy}, author={David Briggs and Martin P. Seah}, year={1983} }

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Practical Surface Analysis SECOND EDITION Volume 1 Auger and X-ray Photoelectron Spectroscopy Edited by D. BRIGGS ICI PLC, Wilton Materials Research Centre, Wilton, Middlesbrough, Cleveland, UK and M. P. SEAH Division of Materials Metrology, National Physical Laboratory, Teddington, Middlesex, UK JOHN WILEY & SONS

## **Practical Surface Analysis - GBV**

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 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**

- Surface sensitivity (all of the discussion about IMFP, mean escape depth, etc. holds for the Auger electrons)
- Kinetic energies are typically 100eV – 2kV
- Cost of instrument (\$500K – \$1M)
- Typically same type of analyzer
- Detection limits
- Elements detected (Li-U)
- Depth profiling by sputtering

## **Surface Analytical Techniques (XPS, Auger, SIMS and RBS)**

He is co-editor of the book: Surface Analysis by Auger and X-ray

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Some comments from previous students: "I learned more in 3 hours than I did all last year." "The material is extremely valuable, the instructor is without peer, and the course can be made better only by making it longer." ...

## **Surface Analysis - John T. Grant**

Practical Surface Analysis, Auger and X-ray Photoelectron Spectroscopy. This is an updated manual covering the theory and practice of X-ray photoelectron spectroscopy (XPS) and Auger electron...

## **Practical Surface Analysis, Auger and X-ray Photoelectron**

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Practical Surface Analysis by Auger and Photoelectron Spectroscopy D. Briggs and M. Seah, John Wiley, 1983 An Introduction to Surface Analysis by XPS and AES; J. F. Watts and J. Wolstenholme, Wiley, Chichester, 2003.

## **Introduction to Auger Electron Spectroscopy**

The use of a finely focused electron beam for AES enables to achieve surface analysis at a high spatial resolution, in a manner analogous to EPMA in the scanning electron microscope. By combining an electron spectrometer with an ultra -high vacuum (UH V) SEM it becomes possible to carry out scanning Auger microscopy.

## **LABORATORY OF SURFACE ANALYSIS - BGU**

Briggs, D. and Seah, M.P. (1990) Practical Surface Analysis. Vol. 1—Auger and X-Ray Photoelectron Spectroscopy. 2nd Edition, Wiley, Chichester. has been cited by the following article: TITLE: Atomic-Scale AES-EELS Analysis of Structure-Phase State and Growth Mechanism of Layered Nanostructures. AUTHORS: Nikolay I. Plusnin

## **Briggs, D. and Seah, M.P. (1990) Practical Surface ...**

Surface Analysis by Auger and X-Ray Photoelectron Spectroscopy Individual chapters can be purchased as PDF downloads Auger Electron Spectroscopy (AES) and X-ray Photoelectron Spectroscopy (XPS or ESCA) are well-established

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D. Briggs and J. T. Grant, Surface Analysis by Auger and X-ray Photoelectron Spectroscopy (SurfaceSpectra Ltd and IM Publications, Chichester, 2003). Google Scholar; 36. D. Briggs and M. P. Seah, Practical Surface Analysis by Auger and X-ray Photoelectron Spectroscopy (Wiley, Chichester, 1983 and 1990). Google Scholar; 37. J.

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