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## **Practical Surface Analysis - GBV**

Auger electron  
spectroscopy is a  
common analytical  
technique used

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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

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independently by both  
Lise Meitner and Pierre  
Auger in the 1920s.  
Though the discovery  
was

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Analytical Chemistry  
1994, 66 (12) ,  
163-185. DOI:  
*Page 14/27*

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10.1021/ac00084a008.

Noel H. Turner and

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book is the first comprehensive treatment of the subject for over 10 years, during which time there have been many advances in instrumentation and performance, understanding of electron spectroscopy fundamentals, experimental methodology and data interpretation, which have markedly enhanced the



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capabilities of AES and  
XPS.

**XPS, AES, UPS and  
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Spectroscopy D. Briggs  
and M. Seah, John  
Wiley, 1983 An  
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Wolstenholme, Wiley,  
Chichester, 2003.

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Briggs, M. P. Seah.  
Wiley, Jul 25, 1996 -  
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spectroscopy (AES)  
techniques for surface  
analysis. Topics  
covered include ...

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...

The Auger (AES)  
chemical shifts can  
also be used and give  
complementary  
information about the  
charge transfer into  
localized orbitals and  
about the final state

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effect. Indeed, the initial state intrinsic contribution (characteristic of the hybridization state of the element) to the chemical shift is quite similar for XPS and AES.

## **XPS, AES and Auger parameter of Pd and PdO - ScienceDirect**

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

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Spectroscopy. 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**

The use of a finely focused electron beam for AES enables to

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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**

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Auger Electron Spectroscopy is the tool of choice for surface (top 50Å) analysis. The tool provides identification of elements from Lithium through Uranium with sensitivities on the order of 0.1%. Auger is the best tool for surface contamination analysis (i.e. contamination in the native oxide).

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Semitracks**

X-Ray Photoelectron Spectroscopy. XPS is a surface chemical 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



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surface contamination,  
exposure to heat to  
study the changes due  
to heating ...

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**X-Ray Photoelectron  
Spectroscopy - an  
overview ...**

"A manure analysis is the best way to determine the fertilizer value of the manure," says Fleming. "Proper sampling is critical to accurately reflect the true nutrient content of the manure." When

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sampling solid manure, use a push-probe, auger, or spade to obtain a representative sample from several locations throughout the manure pile or ...

### **Making the most of manure's valuable assets**

In 2019, an intersection of 21.32 g/t Au over 12.8m (including 60.08 g/t over 3.0m) was reported from

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reconnaissance phase  
drilling (see  
press release June 4,  
2019). Drilling is  
expected to commence  
in Q4-2020 or early  
2021 once permitting  
has been received.

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