

Practical Surface Analysis

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Practical Surface Analysis

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Practical Surface Analysis, Auger and X-ray Photoelectron Spectroscopy. Beginning with historical background of both AES and XPS, it provides in-depth examination of theory and practice of the two techniques. Information on instrumentation, spectral interpretation, depth profiling and quantification are also included.

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A Perspective on the Analysis of Surfaces and Interfaces 1 M. P. Seah and D. Briggs 1.1 Introduction 1 1.2 The background to electron beam techniques 5 1.2.1 Auger electron spectroscopy 5 1.2.2 Other techniques 6 1.3 The background to photon beam techniques 7 1.3.1 X-ray photoelectron spectroscopy 7 1.3.2 Other techniques 9 1.4 The background to ion ...

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Practical surface analysis by Auger and X-ray photoelectron spectroscopy. D. Briggs and M. P. Seah (Editors). John Wiley and Sons Ltd, Chichester, 1983, 533 pp., £44.50

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Abstract. Thus, surface analysis includes the analysis of interfaces and thin films by depth profiling. Recent progress has led to improvements e.g. in sensitivity, spectral resolution and data acquisition and handling. With the trend to high spatial resolution, surface analysis is becoming a special branch of microlocal analysis.

Practical surface analysis: state of the art and recent ...

Practical Surface Analysis - Auger and X-ray Photoelectron Spectroscopy D. Briggs and M. P. Seah (Editors), Wiley Interscience, 1990 (2nd ed.) Handbook of Auger Electron Spectroscopy Physical Electronics, 1994. Handbook of Auger Electron Spectroscopy Perkin Elmer Corporation, Physical Electronics, 1977.

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Surface analysis. The term surface is usually reserved for the interface between a solid and a gas or between a solid and a vacuum; the surface is considered to be that part of the solid that interacts

with its environment. Other interfaces—those between two solids, two liquids, a solid and a liquid, or a liquid and a gas—are studied separately.

Surface analysis | chemistry | Britannica.com

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Contents/Summary. Although literature reviews of aspects of AES and XPS are legion a text is needed which reflects the new maturity of these techniques in a way which is useful practically, especially for newcomers to applied surface analysis. The aim of this book is to correct this omission and to present, in one volume,...

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Auger electron spectroscopy. Since 1953 however, AES has become a practical and straightforward characterization technique for probing chemical and compositional surface environments and has found applications in metallurgy, gas-phase chemistry, and throughout the microelectronics industry.

Auger electron spectroscopy - Wikipedia

Practical Surface Analysis: Auger and X-ray photoelectron spectroscopy David Briggs, M. P. Seah Snippet view - 1990. Common terms and phrases. alloy aluminium angle anode Appl applied argon atoms Auger electron Auger electron spectroscopy Auger peaks background binding energy bombardment Briggs C. D. Wagner calibration carbon catalyst cent ...

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Chapter 2 X-ray probes for surface analysis (XPS or ESCA ...

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Applied surface analysis. The surface of a material is of great importance for its properties, fields of application or lifetime, since it is the surface with which every material interacts with its environment. Oxidation, corrosion and abrasion are examples of physical or chemical processes that can limit the use or the lifetime of products.

Applied surface analysis | SpringerLink

Analysis of photoelectron spectra Modern Methods in Heterogeneous Catalysis Research Axel Knop ... 'Practical Surface Analysis', Vol. 1; Wiley + Sons, 1990. Analyzing the data: Peak Fitting ... Questions for in situ XPS: - Quantitative analysis of surface species - Carbon species on the surface - Depth-dependent analysis CH₃OH + O₂

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