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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

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Auger electron spectroscopy is a common analytical technique used specifically in the study of surfaces and, more generally, in the area

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~~X-Ray Photoelectron Spectroscopy~~  
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

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Over the past three decades, the widespread utility and applicability of X-ray photoelectron spectroscopy (XPS) in research and applications has made it the most popular and widely used method of surface analysis.

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Practical Surface Analysis -Auger and X-ray Photoelectron Spectroscopy D. Briggs and M. P. Seah (Editors), Wiley Interscience, 1990 (2nd ed.) Photoelectron Spectroscopy (Springer Series in Solid-State Sciences Vol. 82) S. Huefner, Springer Verlag, 1995. Introduction to Photoelectron Spectroscopy (Chemical Analysis Vol. 67)

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The aim of this text is to present the background, the important concepts, and tabulated data of Auger electron spectroscopy (AES) and x-ray photoelectron spectroscopy (XPS) in a practical context for those involved in applied surface analysis techniques.

Volume One of this set is an updated manual covering the theory and practice of X-ray photoelectron spectroscopy (XPS) and Auger electron spectroscopy (AES) techniques for surface analysis. The text takes into account improvements in equipment, experimental procedures and data interpretation over the last few years.

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The aim of this text is to present the background, the important concepts, and tabulated data of Auger electron spectroscopy (AES) and x-ray photoelectron spectroscopy (XPS) in a practical context for those involved in applied surface analysis techniques.

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.

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

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