

X-Ray Photoelectron Spectroscopy for industrial applications

Kormunda Martin, Univerzita J. E. Purkyne, Ceske mladeze 6, 400 96 Usti nad Labem. E-mail: martin.kormunda@ujep.cz

The X-Ray Photoelectron Spectroscopy is versatile technique based on high energy photon stimulation. The investigated areas of the sample are about the top 10 nm. The basic composition and chemical bonds can be evaluated. The XPS can be used in the quality control, ageing studies and many more. Samples of CoSbY alloy, carbon-rich coatings and films with tin were investigated here.. The importance of proper handle on carbon contaminations on CoSbY alloy is illustrated. The chemical shift of carbon C 1s peak and oxidation state tin Sn 3d photo electron peaks are presented.

Keywords: XPS, ESCA, surface analyses

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Reviews:

Prof. Iva Nová, MSc., Ph.D.
Prof. Ivan Lukáč, MSc., Ph.D.