

Practical exercise on XPS spectra interpretation

SURFACE ANALYSIS

MSE-351

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Experimental conditions of the sample

- CoCrMo biomedical alloy immersed in PBS+BSA solution at applied passive potential:
 - Formation of an oxide film 2-3 nm
 - Adsorption of protein (BSA containing N) and phosphate ions

Please, do the following

- Identify on the survey spectrum the peaks of each element.
- On the high resolution spectra, attribute the right nomenclature and identify chemical state.

You should use the Handbook of X-Ray Photoelectron Spectroscopy.

XPS Survey















