

## Photoelectron Spectroscopy (XPS) and its Applications

S S ACHARYA<sup>†</sup> and V R R MEDICHERLA

Dept. of Physics, Institute of Technical Education and Research, Siksha 'O' Anusandhan University, Bhubaneswar 751030

<sup>†</sup>corresponding author, email: acharyashakti@gmail.com

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**Abstract :** X-ray photoelectron spectroscopy (XPS) is based on the principle of photo electric effect. XPS is suitable to study the electronic structure of metals and alloys. Apart from Identification of elements, chemical shift, core level shift, core disorder broadening and spin orbit splitting can be observed using XPS in bulk alloys and thin films.

**Keywords:** Photo-electric Effect, Chemical Shift, Spin orbit splitting

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