MultiPak

PHYSICAL ELECTRONICS

PHI *MULTIPAK*™ VERSION 9.0

Data Reduction Software for AES & XPS

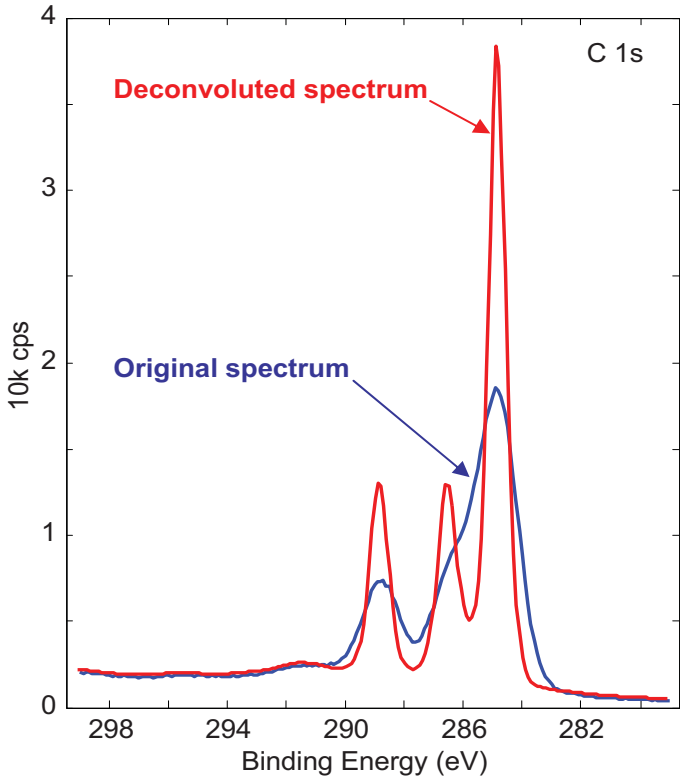
PHI *MultiPak* is the most comprehensive data reduction and interpretation software package available for electron spectroscopy. The tasks of spectral peak identification, extracting chemical state information, quantification, and detection limit enhancement are addressed with an array of powerful and easy-to-use software tools. *MultiPak* can be used on the instrument PC to process data in real time or on an off-line PC for report generation.

NEW IN VERSION 9.0 *MULTIPAK*

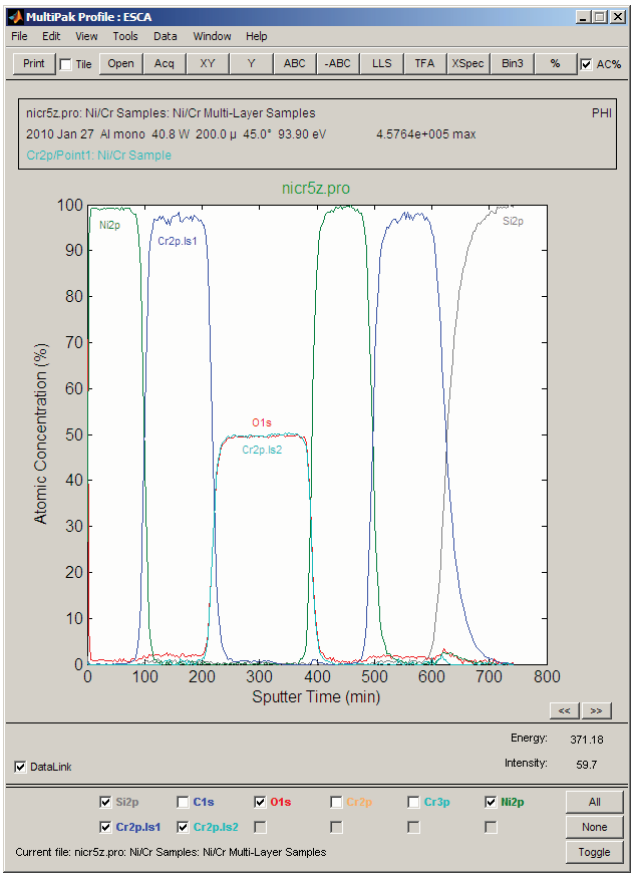
- XPS spectral deconvolution to enable high speed / low x-ray exposure XPS analysis.
- Polynomial background subtraction for high energy resolution Auger spectra.
- Save massaged data files for future use.

ADVANCED DATA REDUCTION TOOLS

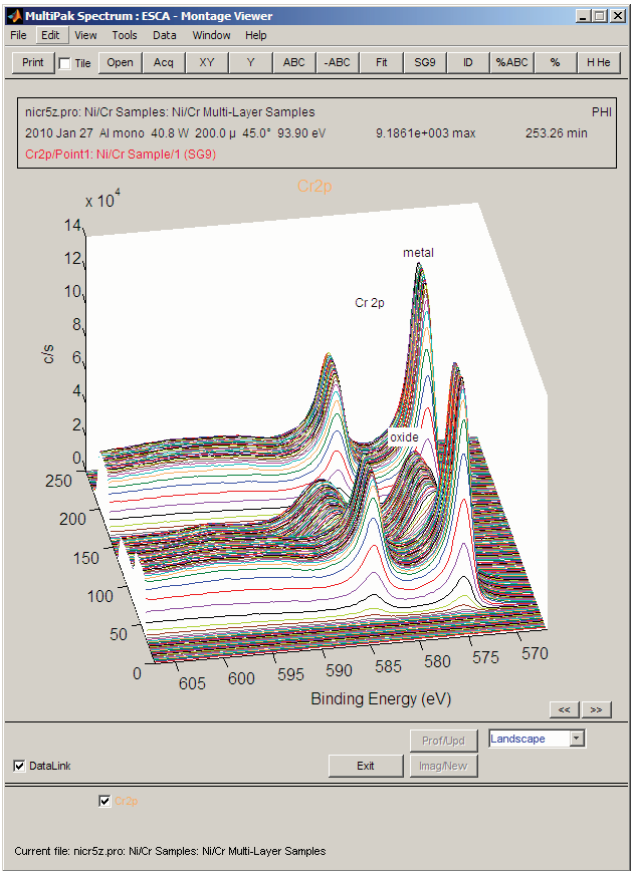
- Auto peak indentification
- XPS chemical state database
- XPS spectral deconvolution
- Non-linear least squares fitting
- Linear least squares fitting
- Target factor analysis
- Retrospective chemical imaging
- ADXPS stratification analysis
- Image scatter diagrams
- Batch mode data processing
- Automated data reduction sequences



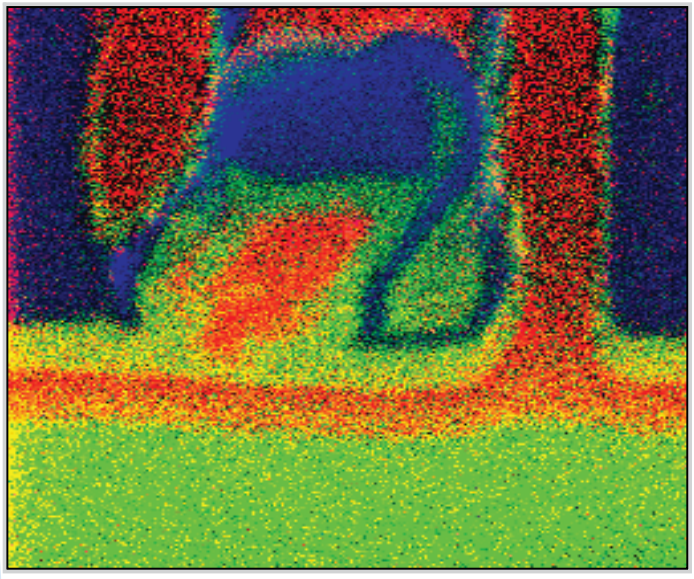
High pass energy PET C 1s spectrum deconvoluted with MultiPak to convert it from 117 eV pass energy data to 2.95 eV pass energy data.



Chemical state XPS depth profile of a multilayer Ni, Cr, Cr oxide thin film structure. Linear Least Squares fitting was used to isolate the peak shapes for Cr metal and Cr oxide in one simple batch process.



Montage display of the Cr spectra used to create the adjacent chemical state depth profile..



Color overlay display of Si, SiOx, and W Auger maps from a FIB section of a buried semiconductor defect.

SUPPORTED DATA FILE FORMATS

- *SmartSoft*
- *SUMMITT**
- *COMPASS*
- *PC-ACCESS**
- *PC-Explorer**

**MultiPak clone files*

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