

## Surface and Thin Films

| Type      | Description   |
|-----------|---|
|           | 3-D Surface Profiling                                   |
|           | Adhesion  |
| AFM       | Atomic Force Microscopy                                 |
| AES       | Auger Electron Spectroscopy                             |
|           | Contact Angle Measurement                               |
| EBSD      | Electron BackScatter Diffraction                        |
| ESCA      | Electron Spectroscopy for Chemical AnalysisEllipsometry |
|           | Ellipsometry  |
| EXAFS     | Extended X-ray Absorption Fine Structure                |
|           | Hardness Testing  |
| HFS       | Hydrogen Forward Scattering                             |
| ISS       | Ion Scattering Spectroscopy                             |
| LA-ICPMS  | Laser Ablation Inductively Coupled Plasma Mass Spec.    |
| LEXES     | Low Energy X-ray Emission Spectroscopy                  |
|           | MicroHardness   |
|           | Nanoindentation   |
| NRA       | Nuclear Reaction Analysis                               |
| PIXE      | Particle Induced X-Ray Emission                         |
| PALS      | Positron Annihilation Lifetime Spectroscopy             |
|           | Profilometry (Contact and Non-Contact)                  |
| RBS       | Rutherford Backscattering Spectrometry                  |
| SPM       | Scanning Probe Microscopy                               |
| SIMS      | Secondary Ion Mass Spectrometry                         |
|           | Surface Roughness/Flatness                              |
| TOF-SIMS  | Time-of-Flight Secondary Mass Spectrometry              |
| TXRF      | Total Reflection X-Ray Fluorescence                     |
|           | Tribology   |
| VPD-ICPMS | Vapor Phase Decomposition/ICPMS                         |
|           | Wafer Bow   |
| SurfScan  | Wafer Particle Maps                                     |
|           | Wear & Friction   |
| XRD       | X-ray Diffraction                                       |
| XRF       | X-ray Fluorescence                                      |
| XPS       | X-ray Photoelectron Spectroscopy                        |
| XRR       | X-ray Reflectivity                                      |