

# ISO/TR 18394:2006-08 (E)

## Surface chemical analysis - Auger electron spectroscopy - Derivation of chemical information

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Abbreviated terms .....</b>	<b>1</b>
<b>5</b>	<b>Types of chemical and solid-state effects in Auger-electron spectra .....</b>	<b>1</b>
<b>6</b>	<b>Chemical effects arising from core-level Auger-electron transitions .....</b>	<b>3</b>
6.1	Introduction .....	3
6.2	Chemical shifts of Auger-electron energies .....	3
6.3	Chemical shifts of Auger parameters .....	4
6.4	Chemical-state plots .....	5
6.5	Databases of chemical shifts of Auger-electron energies and Auger parameters .....	6
6.6	Chemical effects on Auger-electron satellite structures .....	7
6.7	Chemical effects on the relative intensities and lineshapes of CCC Auger-electron lines ....	8
6.8	Chemical effects on the inelastic region of CCC Auger-electron spectra .....	8
<b>7</b>	<b>Chemical effects on Auger-electron transitions involving valence electrons .....</b>	<b>9</b>
7.1	Introduction .....	9
7.2	Chemical-state-dependent lineshapes of CCV and CVV Auger-electron spectra .....	9
7.3	Information on local electronic structure from analysis of CCV and CVV Auger-electron lineshapes .....	13
Bibliography .....		14