



Core-Level Spectroscopy in Condensed Systems

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the Tenth Taniguchi International Symposium, Kashikojima, Japan, October 19-23, 1987 | Core-level Spectroscopy in Condensed Systems describes how recent improvement of various experimental methods, together with new light and x-ray sources, have provided fresh information about the electronic states and atomic structures of a wide variety of materials. The topics covered range from the high-energy spectroscopy of bulk electronic states of rare-earth and transition metals and compounds, including high T superconductors, to recent developments in photoelectron diffraction and other surface problems, all with emphasis on theoretical aspects. | I Introductory Survey.- Many-Body Effects in Core-Level Spectroscopy of Solids.- One-Electron Transitions in the XANES of Condensed Systems.- II Many-Body Effects in f-Electron Systems.- Theory of High Energy Spectroscopy in CeO₂.- Theory of PES and BIS Including f₂ State for Ce-Compounds.- Photoemission Spectra of CeCu₂Si₂ and CeInCu₂.- Resonant Photoemission Spectra of Ce Compounds.- Secondary X-Ray Radiation by Core-Level Excitation.- III Many-Body Effects in d-Electron Systems.- Ab Initio Calculation of the Parameters in the Anderson Model.- Electronic Structure of Transition Metal Compounds as Studied by High Energy Spectroscopies.- Origin of 2p Core-Level XPS Satellites in the Late 3d Transition Metal Dihalides.- Photoemission Satellites and Their Implications for the Electronic and Magnetic Properties of 3d...



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