

ELECTRON ENERGY STRUCTURE OF Mg
FILMS

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S u m m a r y

Using the low-energy (0 – 5 eV) electron backscattering spectroscopy by means of a developed hypocycloidal electron spectrometer with high energy (~ 40 meV) and angular (1 – 5°) resolution, the studies of peculiarities in the energy distribution of electron state density are performed for the magnesium films condensed onto various substrates. The suggested technique allows one to investigate both the surface and bulk electron states.