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transmission electron energy loss spectroscopy (TEELS)

Any technique in which an electron transparent specimen is bombarded with a finely focused electron beam and the energy distribution of the transmitted electrons is measured. This energy spectrum contains features corresponding to discrete losses of energy of the transmitted electrons due to excitation of electronic or plasmon states and provides information on the identity (and in some cases) chemical bonding of the elements in the sample.

Source:
PAC, 1983, *55*, 2023 *(Nomenclature, symbols and units recommended for in situ microanalysis (Provisional))* on page 2025

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