Fast-Neutron Elastic-Scattering Cross Sections of Elemental Tin

by

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ABSTRACT

Broad-resolution neutron-elastic-scattering cross sections of elemental tin are measured from 1.5 to 4.0 MeV. Incident-energy intervals are ≈ 50 keV below 3.0 MeV and ≈ 200 keV at higher energies. Ten to twenty scattering angles are used, distributed between ≈ 20 and 160°. The experimental results are used to deduce the parameters of a spherical optical-statistical model and they are also compared with corresponding values given in ENDF/B-V.