

FAST-NEUTRON TOTAL AND ELASTIC-SCATTERING
CROSS SECTIONS OF ELEMENTAL INDIUM*

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ABSTRACT

Broad-resolution neutron total cross sections of elemental indium were measured from 0.8 to 4.5 MeV. Differential-elastic-scattering cross sections were measured from ≈ 1.5 to 3.8 MeV at intervals of ≈ 50 to 200 keV and at scattering angles in the range 20 to 160 degrees. The experimental results are interpreted in terms of the optical-statistical model and are compared with respective values given in ENDF/B-V.

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