

Evaluated Neutronic Cross Section File for Niobium

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Abstract

The formulation of an evaluated neutronic data file for niobium in the ENDF format is outlined and the complete numerical file presented. This file represents an updating, extension and revision of the previously available file (defined in AP/CTR/TM-4) particularly including: improved high-energy cross section files, gamma-ray production files and corrections to the previous file where indicated. Qualitative uncertainty estimates are given. The present file should be particularly suitable for high energy applied calculations such as are encountered in CTR technology problems.