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ENDF/B-6 High-Energy Data File

of the US National Nuclear Data Center

Summary

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Abstract: This document summarizes the high-energy subfile of ENDF/B-6, the U.S. Evaluated Nuclear Data Library containing neutron and proton reaction data up to 1 GeV for 6-C-12, 26-Fe-56, 82-Pb-208, 93-Bi-209. The file is available upon request from the IAEA Nuclear Data Section, costfree, on floppy diskette, or CD-ROM. The library is available online within NDIS, the Nuclear Data Information System and also from the WWW pages of the Nuclear Data Section.

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Online: TELNET or FTP: iaeand.iaea.or.at
username: IAEANDS for interactive Nuclear Data Information System
usernames: ANONYMOUS for FTP file transfer;
FENDL2 for FTP file transfer of FENDL-2.0;
RIPL for FTP file transfer of RIPL;
NDSONL for FTP access to files sent to NDIS "open" area.

Web: <http://www-nds.iaea.or.at>

Note:

The IAEA-NDS-reports should not be considered as formal publications. When a nuclear data library is sent out by the IAEA Nuclear Data Section, it will be accompanied by an IAEA-NDS-report which should give the data user all necessary documentation on contents, format and origin of the data library.

IAEA-NDS-reports are updated whenever there is additional information of relevance to the users of the data library.

For citations care should be taken that credit is given to the author of the data library and/or to the data center which issued the data library. The editor of the IAEA-NDS-report is usually not the author of the data library.

Neither the originator of the data libraries nor the IAEA assume any liability for their correctness or for any damages resulting from their use.

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Citation guidelines:

ENDF/B-6 High-Energy Data File

ENDF/B-6 is the U.S. evaluated nuclear data library. For its main part containing neutron reaction data in the energy range up to 20 MeV see the document IAEA-NDS-100; for its sublibrary containing low-energy proton reaction data see the document IAEA-NDS-105.

The ENDF/B-6 High-Energy Data Library is a special sublibrary which, at present, consists of two files:

- neutron reaction data up to 1 GeV incident energy
- proton reaction data up to 1 GeV incident energy.

The materials, which have been evaluated simultaneously for both files, are

6-C-12
26-Fe-56
82-Pb-208
83-Bi-209.

They were released by the U.S. National Nuclear Data Center (NNDC) on 2 February 1990 on the ENDF/B-6 tapes 800 and 801 (Fe-56) and on 1 June 1993 on tapes 802 and 803 (other nuclides). Revision 1 was issued on 22 January 1997 on tape 138 and supersedes tapes

801 and 803 of the proton sublibrary.

The data file format is ENDF-6 which is documented in detail in the report IAEA-NDS-76 Rev. 5.