



INTERNATIONAL ATOMIC ENERGY AGENCY

# NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

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**IAEA-NDS-0155**

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## **ENDF/B-5**

The "ENDF/B-5 General Purpose File",  
nuclear data library by the U.S. National Nuclear Data Center

Summary of contents

H.D. Lemmel (ed.)

**Abstract:** The ENDF/B-5 nuclear data library that was released by the U.S. National Nuclear Data Center, is summarized. The data library is available on magnetic tape from the IAEA Nuclear Data Section, costfree, upon request.

Revised by P.K.McLaughlin IAEA/NDS Jan. 2005

The file was revised to conform with ENDF/B format standards.. The merged file was corrected for format errors and processed through the code CHECKR to ensure, as far as possible, format compatibility.

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**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 guideline:**

## **ENDF/B-5**

The "ENDF/B-5 General Purpose File",  
nuclear data library by the U.S. National Nuclear Data Center

Originally, only certain parts and sublibraries of ENDF/B-5 had been released, i.e.

|          |                         |                 |
|----------|-------------------------|-----------------|
| ENDF/B-5 | Actinides               | see IAEA-NDS-13 |
| ENDF/B-5 | Standards               | see IAEA-NDS-15 |
| ENDF/B-5 | Dosimetry File          | see IAEA-NDS-24 |
| ENDF/B-5 | Fission Product Library | see IAEA-NDS-25 |
| ENDF/B-5 | Activation File         | see IAEA-NDS-38 |
| ENDF/B-5 | Gas Production File     | see IAEA-NDS-42 |
| ENDF/B-5 | Fission Product Yields  | see IAEA-NDS-62 |

The bulk of ENDF/B-5, i.e. the so-called General-Purpose File, was released only in 1994 when it was superseded since several years by ENDF/B-6, see document IAEA-NDS-100. Nevertheless, the ENDF/B-5 library may still be of interest for intercomparison purposes.

Graphical plots of the entire library are contained in:

*B.A. Magurno, R.R. Kinsey, F.M. Scheffel:*

Guidebook for the ENDF/B-V Nuclear Data Files, report EPRI-NP-2510.

The following table of "Contents of ENDF/B-V" has been taken from this report.

The format of the library is ENDF-5 which is documented in IAEA-NDS-75 Rev. 1, which includes the original Manual of 1979 plus a revision of 1983.