



International Atomic Energy Agency

Revised Manuals

WP 2008-8 (Action 16+17 – NRDC 2007)

http://www-nds.iaea.org/nrdc/nrdc_2008/working/wp2008-16.pdf

http://www-nds.iaea.org/nrdc/nrdc_2008/working/wp2008-17.pdf

O. Schwerer (N. Otsuka)



Action 16 and 17 – NRDC 2007

A16 NDS

Review the EXFOR Basics Manual and submit revision when time permits. Also include (optionally) the “C4” computational format (taking into account further developments together with WPEC SG30).

A17 NDS

Update LEXFOR and EXFOR Systems Manual

EXFOR Basics Manual



INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

IAEA-NDS-206
June 2008

EXFOR Formats Description for Users (EXFOR Basics)

edited by

Otto Schwerer
IAEA Nuclear Data Section
Vienna, Austria

on behalf of the
Nuclear Reaction Data Centres Network

June 2008

Abstract: EXFOR is the exchange format for the transmission of experimental nuclear reaction data between national and international nuclear data centres for the benefit of nuclear data users in all countries. This report contains a general introduction to EXFOR, a detailed description of the exchange format, a brief description of the computational format C4, and tables of the dictionaries of most important abbreviations used in EXFOR.

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EXFOR Formats Manual



INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

IAEA-NDS-207

February 2008

EXFOR Exchange Formats Manual

Revision 2008 edited by

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based on earlier work by

**Victoria McLane
National Nuclear Data Center
Brookhaven National Laboratory, USA**

**Issued on behalf of the
Nuclear Reaction Data Centres Network**

Abstract: EXFOR is the exchange format for the transmission of experimental nuclear reaction data between national and international nuclear data centers for the benefit of nuclear data users in all countries. This report contains the agreed coding rules and a description of the format.

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LEXFOR (Compiler's Manual)



INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

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February 2008

LEXFOR
(EXFOR Compiler's Manual)

Revision 2008 edited by

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Issued on behalf of the
Nuclear Reaction Data Centers Network

Abstract: EXFOR is the exchange format for the transmission of experimental nuclear reaction data between national and international nuclear data centers for the benefit of nuclear data users in all countries. This report contains the compiler's section of the manual, including physics definitions, background information and practical examples. For a description of the format and coding rules see the EXFOR Systems Manual (IAEA-NDS-207).

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EXFOR/CINDA Dictionary Manual



INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

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EXFOR/CINDA Dictionary Manual

Prepared and edited by

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Version February 2008

issued by the
IAEA Nuclear Data Section

on behalf of the
Nuclear Reaction Data Centers Network

Abstract: EXFOR is the exchange format for the transmission of experimental nuclear reaction data between national and international nuclear data centers for the benefit of nuclear data users in all countries. This report contains the description of the format and contents of the dictionaries of keywords, codes and abbreviations used in the EXFOR and CINDA systems.

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Hyperlinks to Chapters, Sections

The image shows a screenshot of a PDF viewer window titled 'Adobe Acrobat - [iaea-nds-0213.pdf]'. The window is divided into two main sections. On the left is a table of contents (TOC) pane, and on the right is the main document content.

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 - 1.2 Table of Dictionaries
 - 1.3 Additional Information on
 - Dictionary 16: Status code
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- Chapter 2
- ARCHIVE DICTIONARIES
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- Chapter 4
- EXFOR TRANSMISSION DICTIONARIES
 - 4.1 General Information a
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 - 5.1 Hierarchy of Quantities
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Main Document Content:

INTERNATIONAL ATOMIC ENERGY AGENCY
NUCLEAR DATA SERVICES
DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

IAEA-nds-21,
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EXFORCINDA Dictionary Manual

Prepared and edited by
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Version February 2008

Issued by the
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Abstract: EXFOR is the exchange format for the transmission of experimental nuclear reaction data between national and international nuclear data centers for the benefit of nuclear data users in all countries. This report contains the description of the format and contents of the dictionaries of keywords, codes and abbreviations used in the EXFOR and CINDA systems.

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Manuals from NRDC Webpage

International Network of Nuclear Reaction Data Centres (NRDC)

Documents

- Network Document
- EXFOR Atlas
- EXFOR Formats
- EXFOR
- NRDC Protocol (Draft)
- EXFOR/CINDA
- DIFDIRS
- CINDA/EXFOR Manual
- EXFOR Formats
- More Documents

What is NRDC?

The International Network of Nuclear Reaction Data Centres (NRDC) constitutes a worldwide cooperation of nuclear data centres under the auspices of the International Atomic Energy Agency. The Network was established to coordinate the world-wide collection, compilation and dissemination of nuclear reaction data.

Objectives and Tasks

The primary goal of the Network is the dissemination of nuclear reaction data and associated documentation to users. The following specific tasks must be carried out in order to accomplish this important aim:

- Completion of relevant bibliographic information (CINDAL).
- Completion of experimental nuclear reaction data (EXFOR).
- Collection of evaluated nuclear reaction data (ENDF/EVAL).
- Exchange of nuclear reaction data of all types.
- Promotion of the development of special purpose evaluated data files.
- Development of common formats for computerized exchange of nuclear data.
- Coordinated development of computer software for manipulating and disseminating nuclear data.
- Consideration of the development and dissemination of end-user software for both on-line and local access to nuclear data.
- Documentation of current and future data needs in order to be able to meet changing user demands.

Data Centres

Country	Centre	Joined
U.S.A	US National Nuclear Data Center Brookhaven National Laboratory, Upton, NY	1966
France	CEA/NEA Data Bank Tray-lès-Plessis	1966
Austria	IAEA Nuclear Data Section Vienna	1966
Russia	Russian Nuclear Data Center Institute of Physics and Power Engineering, Obninsk	1966

Links to manuals

END