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Contents

- DOE Software's Top 10
- EDB Thesaurus Revision
- Magnetic Tape Output From DOE/RECON
- RECON Manual Updates
- FEDEX File Closes
- Errata
- DOE/RECON Statistics
- Videotapes Keep Rolling Along
- Calendar

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March, 1984

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THE LATEST DEVELOPMENTS ABOUT DOE'S TECHNICAL INFORMATION PROGRAM, PRODUCTS, AND SERVICES

DOE Software's Top 10

The National Energy Software Center (NESC), operated by Argonne National Laboratory for the Department of Energy's Office of Scientific and Technical Information, has recently published a list of the most popular of its DOE software packages that are shared among DOE sites and DOE contractors. Topping the list was the ASPEN program, developed by the Massachusetts Institute of Technology. This engineering program became part of the NESC collection in FY 1983. The list is given in order of popularity.

NESC provided 355 software packages to 192 organizations in FY 1983, and 175 new software packages were added to the collection; 65 of the new programs were tested by execution of a sample problem.

Additional information about these programs is available online in the NES file (no. 23) on the DOE/RECON system, or you may contact:

Cathy Eyberger
National Energy Software Center
Argonne National Laboratory
9700 South Cass Avenue
Argonne, IL 60439
FTS 972-7250
Commercial (312) 972-7250

—James D. Cape, OSTI

EDB Thesaurus Revision

In answer to a number of inquiries to the Office of Scientific and Technical Information (OSTI) about the revision of the EDB Subject Thesaurus, DOE/TIC-7000, the schedule for preparing revision 6 has just been established.

The online version of the Thesaurus used in indexing is updated semi-monthly and loaded on DOE/RECON for use and retrieval. After the second March update, the Thesaurus will be closed insofar as the printed version of revision 6 is concerned. At that time, reciprocal checks will be run to assure that all word blocks are complete, and a special tape will be prepared for use by the Government Printing Office in photocomposing the page negatives. The negatives will then be returned to TIC where it will be

Ten Most Popular DOE Software Packages Distributed by NESC

Software Program	Developer
1. ASPEN (Advanced System for Process Engineering)	Massachusetts Institute of Technology
2. DOE 2.1A, building energy consumption analysis	Lawrence Berkeley Laboratory
3. SLATEC 1.0, mathematical subroutine library	Los Alamos National Laboratory
4. RELAP 5/MOD 1/018, LWR loss-of-coolant analysis	EG&G Idaho
5. CONTEMPT 4/MOD 3/1.0, PWR containment analysis	EG&G Idaho
6. PDQ 7, 1, 2, 3-d, few-group diffusion depletion	Naval Reactors
7. RELAP 4/MOD 7/101, thermal and hydraulic phenomena	EG&G Idaho
8. CRAC 2, reactor accident consequence model	Sandia National Laboratories
9. LR, LR(1), grammar analyzer and parser generator	Lawrence Livermore National Laboratory
10. NJE, VAX VMS IBM NJE network protocol emulator	Argonne National Laboratory

(Continued on page 2)

This Month's Insert

Enclosed with this issue is the Data Base Summary Sheet for Nuclear Structure Reference (NSR, file 16).



DOE Office of Scientific and Technical Information
Technical Information Center
P.O. Box 62
Oak Ridge, TN 37831

New Policy on Magnetic Tape Output From DOE/RECON

Users of DOE/RECON periodically have needs for magnetic tape output for publishing bibliographies, building their own files, etc. While TIC and ORNL have always tried to accommodate these special requests, there has been no standard operating procedure or policy.

For government-owned files, DOE/RECON users may request tape output as needed. The request should be made to the operating staff on duty before inputting the search. To cover the cost of tape and special handling, there will be a charge of \$100.00, plus \$0.10 per record.

This additional service to DOE/RECON users is provided with the understanding that the tapes are solely for the requestor's organizational use and that machine-readable copies for third-party use will not be made.

Magnetic tape output from nongovernment-owned files will not be provided under any circumstances.

THESAURUS,
Continued from page 1

proofed, and any required corrections will be made. When this process is completed, the negative will be mailed to the GPO printer, where approximately 4000 hardbound copies will be produced. As with all other DOE reports, free copies will be available from TIC for DOE offices and major laboratories. The Thesaurus will be available to all others from NTIS, but the prices cannot be established until after printing, which is expected to be completed by late summer.

The permuted term listing of the Thesaurus (Rev. 5) will be revised also. Because it is much shorter and is softbound, it should be available earlier.

—David E. Bost, OSTI

Errata

In the January issue of *Energinfo* (vol. 8, no. 1, p. 1), it was stated that DOE reports with unlimited distribution, which are now being included in the Government Printing Office (GPO) depository program, would be announced in the GPO monthly catalog. The Government Printing Office is considering the question of including these DOE reports in the catalog, and a policy will be announced in due course.

In the article on the reorganization of TIC that appeared in the February 1983 issue (vol. 8, no. 2, page 1), the title of Manager for Information Services should have read "Assistant Manager for Information Services."

RECON Manual: Updates 3 & 4 Available

Manual Update 3 (DOE/TIC-4586-R1/UPD-3), a revised data base section for DOE's Energy Data Base (EDB, file 1), was distributed to users in December 1983. This update includes a section on proximity searching that is also applicable to the reloaded data base.

Manual Update 4 (DOE/TIC-4586-R1/UPD-4), distributed in January, includes a revised data base section for the DOE Research in Progress data base (RIP, file 3). It completely replaces the data base section currently in your Manual.

Please file these updates in your *DOE/RECON User's Manual, Revision 1* (DOE/TIC-4586-R1). If you did not receive your update or if you need additional copies, contact:

Nancy E. Hardin
Department of Energy
Technical Information Center
P.O. Box 62
Oak Ridge, TN 37831
FTS 626-1278
Commercial (615) 576-1278

FEDEX File Closes

The Federal Energy Data Index (FED, file no. 7) has been closed. The file, which was last updated on July 14, 1983, is still available for retrospective searching, but there will be no further updates. This bibliographic file contains entries at the table, graph, and document levels for all Energy Information Administration (EIA) publications and selected other Federal and state energy statistical publications.

DOE/RECON Statistics

DOE/RECON uptime for February was 97.1%. There were 4,995 user sessions, and 131,930 citations were output via the PRINT commands, 388 PEPs (Personal Energy Profiles) were run, and 121 online orders were placed.

—C. Webster Gudmundson,
DOE/RECON Staff, ORNL

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NUCLEAR STRUCTURE REFERENCE

SOURCE

National Nuclear Data Center (NNDC)
Bldg. 197D
Brookhaven National Laboratory
Upton, Long Island, New York 11973

REPRESENTATIVE

Charles L. Dunford
NNDC
FTS 666-2901 Comm. (516) 282-2901

DESCRIPTION

The NSR data base contains references to papers that report research results on nuclear reactions and nuclear structure. Each entry contains a string of keywords which describe the contents of the article. These keywords are not searchable, but the selectors, terms taken from the keyword field, are searchable. The symbols used in these fields are generally those used in the journal *Nuclear Physics*. The file corresponds to the "Recent References" section of the journal *Nuclear Data Sheets*.

SUBJECT COVERAGE

The NNDC has tried to make the data base essentially complete, covering all known references to any aspects of low and intermediate energy nuclear physics research. Some of the references go back to the early twentieth century.

SIZE

91,937 citations as of February, 1984

INCLUSIVE DATES

Early 20th century to date.

UPDATE FREQUENCY

Three times a year.

AVAILABLE FORMATS

- 0 Full record
- 1 Accession number
- 2 Bibliographic citation, keywords, selectors
- 3 Bibliographic citation
- 4 Accession number, title, keywords
- 5 Bibliographic citation, keywords, selectors
- 6 Accession number, title, reference
- 7 Full record, except selectors

SEARCH AIDS

1. *Nuclear Data Sheets*, Recent References issues. Academic Press, New York. 1966-.
Recent References are included in every fourth issue of this monthly publication.
2. *Nuclear Physics*. 26, p.697 (1961).
Lists symbols, nomenclature, units, etc., used in experimental physics papers.
3. *Nuclear Physics A*. 68, p.1 (1965).
Lists keywords used in experimental physics papers.

TYPICAL RECORD

DN= <ACCESSION NO.> 83J0505441
 TL= <KEY NUMBER> 83PA01
 <TITLE> Differential Cross Sections and Analyzing Powers for pp Elastic Scattering at 1.46 GeV/c in the Coulomb-Nuclear Interference Region
 AU= <AUTHORS> G. Pauletta, G. Adams, S.M. Haji-saeid, G.J. Igo, J.B. McClelland, A.T.M. Wang, C.A. Whitten, Jr., A. Wriekat, M.M. Gazzaly, N. Tanaka
 <REFERENCE> Phys.Rev. C27, 282 (1983)
 <KEYWORDS> NUCLEAR REACTIONS 1H (polarized p,p),E=800 MeV; measured sigma(theta),A(theta); deduced forward scattering amplitudes
 <CODEN> J JOUR PRVCA 27 282
 IT= <SELECTORS> (P,P); DSIGMA; N:1H; POLARIZATION; T:1H

RETRIEVAL METHODS

SUBJECT APPROACH, TEXT*			
PREFIX	FIELD	AUTHORITY/DESCRIPTION	EXAMPLE
IT=	Selectors	Nuclear Data Sheets Nuclear Physics A	IT=DSIGMA IT="(32S,32S)" **
TL=	Title Words		TL=SCATTERING

*Note that the LOOK command may be used to retrieve title words and phrases, e.g., LK2/t/electron scattering.

**When searching selectors that begin with parentheses, you may either enclose the whole expression in double quotes as above, or you may use SELECT and include the IT=, e.g., SELECT IT=(32S,32S).

OTHER SEARCHABLE FIELDS			
PREFIX	FIELD	AUTHORITY/DESCRIPTION	EXAMPLE
AU=	Author		AU=MCCLELLAND, J.B.
DN=	Key Number	Nuclear Data Sheets	DN=83ST01

Videotapes Keep Rolling

The actors and production crew of the DOE/RECON videotapes—featured below—have completed filming of the fourth tape, which concentrates on subject searching. Topics discussed are the use of suffixes and proximity searching, subject indexing, the thesaurus, and upposting. This is the first of the

training films to get into theory; it deals with the concepts involved in building data bases and with indexing schemes.

The first videotape presents an introduction to the system and its capabilities. Films two and three are instructional, teaching the basic commands necessary to manipulate

the system.

Videotape no. 5 is scheduled for completion by the end of April, and no. 6 will be filmed in June. The first tape is already available to DOE/RECON users, and all of the first five are expected to be available by the end of May.

Meet the Videotape Cast and Crew



The cast, from left: Dorothy Chertok, Office of Scientific and Technical Information (OSTI), Nancy Norton, Oak Ridge National Laboratory; Tom Huffstetler, Union Carbide Nuclear Division; Jo Maxon-Dadd, Lawrence Berkeley Laboratory; and George Thoeming, OSTI.



Production crew: front, Walt Corey, Director/Editor, and Bill Parham, Technical Director, both from ORNL; back, Dora Moneyhun, Executive Producer; Ray Parrott, Graphics Artist; and Catherine Grissom, Technical Advisor, all from OSTI; Erle Hill, Scriptwriter and Consultant; and Jim Littlepage, Production Coordinator, OSTI.



Calendar of Events

April 2	Basic DOE/RECON Training: Introductory Module on Using Terminals (optional session for novice users) The Forrestal Building, Washington, DC	April 13	DOE Energy Data Base Workshop (Searching EDB on commercial search systems) In conjunction with the National Online Meeting Sheraton Centre Hotel, New York, NY (Contact <i>Energinfo</i> editor)
April 3-4	Basic DOE/RECON Training (for newer users) The Forrestal Building, Washington, DC	June 4-7	Technical Information Users Meeting Technical Information Center, Oak Ridge, TN
April 5	DOE/RECON Update Training (for experienced DOE/RECON searchers) The Forrestal Building, Washington, DC		

Please send training reservations to DOE/RECON Training Coordinator, Lawrence Berkeley Laboratory, Bldg. 50, Room 130, Berkeley, CA 94720, telephone: (415) 486-6307 or FTS 451-6307.

For Reference

Not to be taken from this room

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