

tik ki, - ezek között is a fizikai és a műszaki tudományok dominálnak. Több mint 100 központ a szövetségi kormányzervek támogatásával - több száz pedig magánalapítványok keretében működik.

Mivel az információelemző központok egy-egy szűk szakterületen tevékenykednek, módjuk van annak áttekintésére, és így javaslatokat tehetnek a kutatások további irányára, adatgyűjtésére - vagy értékelhetik az említett kutatások helyzetét, eredményeit. A központok ennyiben visszacsatoló szerepet is ellátnak a kutatók és a felhasználók között.

A megoldandó feladat nagyságának megfelelően változatosak az értékelte primer publikációk és azok hordozói is. A primer források között szerepelnek folyóiratcikkek és különlenyomatok, kutatási jelentések, tézisek, kongresszusi kiadványok stb. A dokumentumok tárolása és feldolgozása részben eredetiben, részben mikrofilmtechnikával, részben számítógép segítségével történik. Az így összegyűjtött és feldolgozott adatok alapján adnak felvilágosítást iparvállalatoknak és kutatóintézeteknek, levélben, telefonon vagy akár on-line üzemmódu számítógépes kereséssel. Ezen túlmenően publikálnak adatgyűjteményeket, bibliográfiákat, értékelő referátumokat, kézikönyveket, helyzetjelentéseket stb. A felsőoktatási intézmények által támogatott információelemző központok egyben a hallgatókkal megismertetik az információtárolás és -keresés legújabb technikáját is.

Az információelemző központok kiadványai

Egyelőre olyan összesített bibliográfia, amely az információelemző központok kiadványait azok teljességében felsorolná, nincs. A legfontosabb publikációk felsorolását az alábbiakban közöljük. Ezek tulnyomó része 1969 után

jelent meg. Beszerzésük részint a Superintendent of Documents, Government Printing Office, Washington D.C. címen, részint az egyes központoktól közvetlen levelezés útján lehetséges.

Publications of Information Analysis Centers

Atomic Transition Probabilities Data Center

1. Fuhr, J. R. and W. L. Wiese / *Bibliography on Atomic Transition Probabilities, July 1969 through June 1971*. NBS Special Publication 320, Suppl. 1. Sep 1971. *

Berkeley Particle Data Center

(Available from National Technical Information Service, Springfield, Va. 22151)

1. A Compilation of YN Reactions. NSRDS-UCRL-20000 YN. Jan 1970.

2. π N Partial-Wave Amplitudes. NSRDS-UCRL-20030 π N. Feb 1970.

3. NN and ND Interactions [above 0.5 GeV/c]—A Compilation. NSRDS-UCRL-20000 NN. Aug 1970.

4. K_p^+ N Interactions—A Compilation. NSRDS-LBL-55. Mar 1972.

5. NN and ND Interactions—A Compilation. NSRDS-LBL-58. May 1972.

6. Review of Particle Properties. NSRDS-LBL-100. Apr 1972.

7. Review of Particle Properties. UCRL-8030. Aug 1970.

Charged-Particle Cross-Section Data Center

1. Reaction List for Charged-Particle-Induced Nuclear Reactions:

- a) Part I: Z=1 to Z=98 (H to Cf), Jul 1970-Jun 1971; Part II: Coulomb Excitation 1956-Jun 1971, F. K. McGowan, and W. T. Milner, *Nuclear Data A9*, 469-626, 1971.
- b) Z=1 to Z=99 (H to Es), Jul 1971-Jun 1972, F. K. McGowan, and W. T. Milner, *Nuclear Data A11*, 1-126, 1972.
- c) Z=1 to 98 (H to Cf), Jul 1972-Jun 1973, F. K. McGowan, and W. T. Milner, *Atomic and Nuclear Data Tables 12* (no.6) (1973).
2. McGowan, F. K. and W. T. Milner / Charged-Particle Reaction List 1948-1971. Atomic and Nuclear Data Reprints v.2. New York, Academic Press, 1973.
- Chemical Kinetics Information Center*
1. Benson, S. W. and H. E. O'Neal / Kinetics Data on Gas Phase Unimolecular Reactions. NBS-NSRDS 21, 1970. *
 2. Darwent, B. de B. / Bond Dissociation Energies in Simple Molecules. NBS-NSRDS 31, 1970. *
 3. Bortner, M. H. / A Review of Rate Constants of Selected Reactions of Interest in Re-Entry Flow Fields in the Atmosphere. NBS-TN 484, 1969. *
 4. McDaniel, E. W., et al. / Ion-Molecule Reactions. New York, Wiley, 1970.
 5. Wilson, W. E., Jr. / A Critical Review of the Gas-Phase Reaction Kinetics of the Hydroxy Radical. *Journal of Physical and Chemical Reference Data 1*: 535 (1972).
 6. *Chemical Kinetics of Reactions of Chlorine, Nitrogen and Oxygen Fluorides in Gas Phase: A Bibliography*; 1934 through June 1972. NBS LP 69, Jul 1972. **
 7. Westley, Francis / *Bibliography of Kinetic Data on Gas Phase Reactions of N₂, O₂, and Nitrogen Oxides*. COM-71-00841, 1971. *
 8. *Reactions of Electronically Excited Molecular Oxygen (with Organic and Inorganic Molecules) in Liquid Phase*. NBS LP 70, Jul 1972. **
 9. Reference Works for the Chemical Kineticist. *National Bureau of Standards Technical News Bulletin 55* (no.6) (Jun 1971).
 10. Lloyd, Alan C. / Evaluated and Estimated Kinetic Data for the Gas Phase Reactions of the Hydroperoxyl Radical. NBS Report 10447. *International Journal of Chemical Kinetics 6* (no.2) (1974).
 11. Lloyd, A. C. / A Critical Review of the Kinetics of the Dissociation-Recombination Reactions of Fluorine, and Chlorine. *International Journal of Chemical Kinetics 3*: 39 (1971).
 12. Hampson, R. F., ed. / Photochemical and Rate Data for Twenty-Eight Gas Phase Reactions: A Survey of the Data. *Journal of Physical and Chemical Reference Data 2* (no.2) (1973).
 13. Westley, Francis / Chemical Kinetics in the C-O-S and H-N-O-S System: A Bibliography 1899 Through June 1971. NBS Special Publication 362, 1972. *
 14. Johnston, H. and D. Garvin / Working Papers for a Survey of Rate Data for Chemical Reactions in the Stratosphere. NBS Report 10931, Oct 1972. **
 15. Westley, Francis / A Supplementary Bibliography of Kinetic Data on Gas Phase Reactions of Nitrogen, Oxygen, and Nitrogen Oxides. NBS Special Publication 371, 1973. *
 16. Hampson, R. F., ed. / Chemical Kinetics Data Survey I. Rate Data for Twelve Reactions of Interest for Stratospheric Chemistry. NBS Report 10692, 1972. **
 17. Hampson, R. F., ed. / Chemical Kinetics Data Survey II. Photochemical and Rate Data for Fifteen Gas Phase Reactions of Interest for Stratospheric Chemistry. NBS Report 10828, 1972. **
 18. Garvin, D. and L. H. Gevantman / Chemical Kinetics Data Survey III. Selected Rate Constants for Chemical Reactions of Interest in Atmospheric Chemistry. NBS Report 10867, 1972. **
 19. Chemical Kinetics Data Survey IV. Preliminary Tables of Chemical Data for Modelling of the Stratosphere. NBSIR 73-203, 1973. **
 20. Garvin, D., ed. / Chemical Kinetics Data Survey V. Sixty-Six Contributed Rate Photochemical Data Evaluations of Ninety-Four Reactions. NBS Report NBSIR 73-206, 1973. **
 21. Hampson, R. F., ed. / Chemical Kinetics Data Survey VI. Photochemical and Rate Data for Twelve Gas Phase Reactions of Interest for Stratospheric Chemistry. NBS Report NBSIR 73-207, 1973. **
 22. Gevatman, L. H. and D. Garvin / The Compilation and Evaluation of Chemical Kinetics Data: A Descriptive Survey of Current Efforts. *International Journal of Chemical Kinetics 5*: 213 (1973).
- For related publications on chemical kinetics brought out by other organizations, see the publications list provided by the Chemical Kinetics Information Center.

Data Center on Spectral Line Shapes and Shifts

1. Fuhr, J. R., et al. / *Bibliography on Atomic Line Shapes and Shifts*. NBS Special Publication 366. 1973. *

Electronic Properties Information Center

1. *Electronic Properties of Materials; a Guide to the Literature*. v.2 (parts 1&2). New York, Plenum, 1967.
2. *Electronic Properties of Materials; a Guide to the Literature*. v.3 (parts 1&2). New York, Plenum, 1971.
3. *Handbook of Electronic Materials*. New York, Plenum, 1971- . 6v.

In addition, EPIC produced a total of 109 publications in the form of technical reports, interim reports, and special publications. They are listed under "Hughes Aircraft Co., Culver City, Calif. Electronic Properties Information Center" in the *U.S. Government Research and Development Reports Index*.

Fused Salts Information Center

No longer in existence. Similar work is carried out by Molten Salts Data Center.

Information Center on High Temperature Behaviour of Inorganic Salts

No longer in existence.

1. *High Temperature Properties and Thermal Decomposition of Inorganic Salts: Part 2. Carbonates*. NSRDS-NBS 30. K. H. Stern, and E. L. Wiese. 1969. *
- Part 3. *Nitrates and Nitrites*. K. H. Stern. *Journal of Physical and Chemical Reference Data* 1: 747 (1972).
- Part 4. *Oxysalts of the Halogens*. *Journal of Physical and Chemical Reference Data*. (To be published)

Molten Salts Data Center

1. Janz, G. J., et al. / *Molten Salts*. v.2. Section 1: *Electrochemistry of Molten Salts: Gibbs Free Energies and Excess Free Energies from Equilibrium Type Cells*; Section 2: *Surface Tension Data*. NSRDS-NBS 28. Aug 1969. *
2. Janz, G. J., et al. / *Molten Salts*. v.3: *Electrical Conductance, Density, Viscosity, and Surface Tension Data for Nitrates as Binary Mixtures*. *Journal of Physical and Chemical Reference Data* 1: 581 (1972).

Mossbauer Effect Data Center

1. Muir, A. H., Jr., et al. / *Mossbauer Effect Data Index, 1958-1965*. New York, Interscience Publications, 1966.
2. Muir, A. H., Jr., and John G. Stevens / *Mossbauer Effect Data Index, 1966-68*. (in prep).
3. Stevens, John G. and Virginia Stevens / *Mossbauer Effect Data Index, 1969*. New York, Plenum, 1970.
4. Stevens, John G. and Virginia Stevens / *Mossbauer Effect Data Index, 1970*. New York, IFI/Plenum, 1972.
5. Stevens, John G. and Virginia Stevens / *Mossbauer Effect Data Index, 1971*. New York, IFI/Plenum, 1972.

Radiation Chemistry Data Center

1. Watson, E., Jr. and S. Roy / *Selected Specific Rates of Reactions of the Solvated Electrons in Alcohols*. NSRDS-NBS 42. 1972. *
 2. Anbar, M., et al. / *Selected Specific Rates of Reactions of Transients from Water in Aqueous Solution. I: Hydrated Electron*. NSRDS-NBS 43. 1972. *
 3. Peterson, D. B. / *Radiation Chemistry of Gaseous Ammonia*. NSRDS-NBS 44. 1974. *
 4. Johnson, G. R. A. / *Radiation Chemistry of Nitrous Oxide Gas. Preliminary Processes, Elementary Reactions and Yields*. NSRDS-NBS 45. 1973. *
 5. Freeman, G. R. / *Radiation Chemistry of Ethanol: A Review of Data on Yields, Reaction Rate Parameters and Spectral Properties of Transients*. NSRDS-NBS 48. (To be published) *
 6. Farhataziz and A. B. Ross / *Selected Specific Rates of Reactions of Transients from Water in Aqueous Solution. III: Hydroxyl Radical and Peroxyhydroxyl Radical and Their Radical Ions*. NSRDS-NBS xx. 1974. *
 7. Anbar, M., et al. / *Selected Specific Rates of Reactions of Transients from Water in Aqueous Solution. II: Hydrogen Atom*. NSRDS-NBS xx. (To be published) *
- Items 8-14 are available from National Technical Information Service, Springfield, Va. 22151.
8. *Bibliography on Electron Spin Resonance of Radiation Produced Radicals*. COO-38-595. Nov 1967.
 9. *Bibliography on the Radiation Chemistry of Aqueous Solutions. I: Amino Acids*. COO-38-641. Nov 1968.

10. Bibliography on the Radiation Chemistry of Aqueous Solutions. II: Carbohydrates. COO-38-642. Dec 1968.
11. Bibliography on Radiation Chemistry of Alcohols and Phenols. COO-38-643. Nov 1968.
12. Thesaurus for Radiation Chemistry. COO-38-621. May 1968 (rev. Aug 1972).
13. Bibliography of Radiation Chemistry of Alkanes. COO-38-661. May 1969.
14. Weekly list of Papers on Radiation Chemistry. Index and Cumulation:
 - v.IV Nos. 1-26, Jan-Jun 1971. COM-71-01103. Aug 1971.
 - v.IV. Nos. 27-52, Jul-Dec 1971. COM-72-10266. Jan 1972.
 - v.V. Nos. 1-26, Jan-Jun 1972. COM-72-10621. Aug 1972.
 - v.V. Nos. 27-52, Jul-Dec 1972. COM-73-10281. Jan 1973.
 - v.VI. Nos. 1-26, Jan-Jun 1973. COM-73- In press.

Rare-Earth Information Center

1. Gschneidner, Karl A., Jr., and Nancy Kippenhan / Thermochemistry of the Rare Earth Carbides, Nitrides, and Sulphides for Steelmaking. IS-RIC-5. Aug 1971. (Available free.) **
2. *Thermochemistry of Rare Earths*. IS-RIC-6. **
 - Part I: Rare Earth Oxides.
 - Part II: Rare Earth Oxy-sulfides.
 - Part III: Rare Earth Compounds with B, Sn, Pb, P, As, Sb, Bi, Cu, and Ag. (To be published)
3. *RIC News*. (Quarterly) (Available free) **

Research Materials Information Center

1. Connolly, T. F., ed. / *Solid State Physics Literature Guides*. New York, IFI/Plenum, 1970.

- v.1: Ferroelectric Materials and Ferroelectricity.
- v.2: Semiconductors: Preparation, Crystal Growth, and Selected Properties.
- v.3: Groups IV, V, and VI Transition Metals and Compounds: Preparation and Properties.
- v.4: Electrical Properties of Solids: Surface Preparation and Methods of Measurement.
- v.5: Bibliography of Magnetic Materials and Tabulation of Magnetic Transition Temperatures.

Superconductive Materials Data Center

1. Roberts, B. W. / *Superconductive Materials and Some of Their Properties*. NBS-TN 724. 1972. *

Thermophysical Properties Research Center

1. Touloukian, Y. S., ed. / *Thermophysical Properties Research Literature Retrieval Guide*. Supplement 1 (covering the years 1964-1970). New York, Plenum, Aug 1973. 6v.

U.S. Bureau of Mines: Contributions to the Data on Theoretical Metallurgy

1. King, E. G., et al. / *Thermodynamic Properties of Copper and Its Inorganic Compounds*. New York, International Copper Research Association, 1973.
2. Wicks, C. E. and F. E. Block / *Thermodynamic Properties of 65 Elements—Their Oxides, Halides, Carbides, and Nitrides*. Bureau of Mines Bulletin 605. 1963. *

/Special Libraries, 65.k. 10-11.sz. 1974.
okt.-nov. p.455-461./

Számítástechnikai kiadványok

A Computer Weekly c. folyóirat 1974 novemberi számában az angol számítóközpont /National Computing Centre/ egyik munkatársa, az alábbiak szerint állította össze a számítástechnika szakterületén leginkább érdeklődésre számot tartó kiadványok és referálólapok címjegyzékét: