



PHYSICS Research Guide

Electronic Directories

Help by Subject: Physics [<http://www.library.ucsb.edu/subjects/physics/phys.html>]

Article Indexes & Abstracts – <http://www.library.ucsb.edu/databases/>

INSPEC (1969 to present) and **INSPEC Archive** (1898-1968)

Worldwide literature in physics, electronics, and computer science. Includes abstracts.

Compendex Plus (1884 to present)

Focuses on engineering and technology; includes applications in areas such as high energy, plasma, nuclear, and solid state physics. Indexes journals and selected books and reports. Includes abstracts.

MathSciNet (1940 to present)

Focuses on mathematics and its applications, including mathematical physics. Includes evaluative reviews and abstracts of articles.

Web of Knowledge (1945 to present)

Multidisciplinary index in science and technology. Covers major scholarly journals. Includes an index to cited articles and those articles which cite them.

Expanded Academic ASAP (1980 to present)

Citations to articles in scholarly and popular sources. This is a good source for less specialized articles. The full text of many articles is included.

Library Catalogs

Pegasus [<http://pegasus.library.ucsb.edu/F>]

Cataloged materials in the University of California, Santa Barbara Library.

Melvyl [<http://melvyl.cdlib.org>]

Cataloged materials in the University of California libraries.

Electronic Journals

UCSB Library electronic journals [<http://www.library.ucsb.edu/ejournals/>]

Electronic journals in physics [[http://ucelinks.cdlib.org:8888/sfx_ucsb/a-](http://ucelinks.cdlib.org:8888/sfx_ucsb/a-z/default?perform=searchCategories&type=browseCategory&service=&category=17)

[z/default?perform=searchCategories&type=browseCategory&service=&category=17](http://ucelinks.cdlib.org:8888/sfx_ucsb/a-z/default?perform=searchCategories&type=browseCategory&service=&category=17)]

Electronic Books – <http://www.library.ucsb.edu/eresources/epubs/books-frames.html>

Advances in Solid State Physics

Les Houches

Lecture Notes in Physics

SPIE Digital Library

Springer Tracts in Modern Physics

Topics in applied Physics

Almanacs, Dictionaries, and Encyclopedias

- Dekker encyclopedia of nanoscience and nanotechnology.* 2004. [SEL Ref QC 176.8 .N35 D43 2004] Also online: <http://www.dekker.com/servlet/product/productid/E-ENN>
- A dictionary of named effects and laws in chemistry, physics and mathematics.* 1980. [SEL Ref QD 5 .B32 1980]
- A dictionary of physics.* 2004. [SEL Ref QC 5 .D538 2004]
- Dictionary of physics and mathematics abbreviations, signs and symbols.* 1971. [SEL Ref QC .D55 1971]
- Encyclopedia of applied physics.* 1991- [SEL Ref QC 5 .E543 1991]
- Encyclopedia of modern physics.* 1990. [SEL Ref QC 5 .E544 1990]
- Encyclopedia of physics.* 1991. [SEL Ref QC 5 .E545 1990]
- Encyclopedic dictionary of condensed matter physics.* 2004. [SEL Ref QC 176 .A3 F5913 2004]
- The Facts on File dictionary of physics.* 1988. [SEL Ref QC 5 .F34 1999]
- Glossary of terms in heat transfer, fluid flow, and related topics: English, Russian, German, French, and Japanese.* 1983. [SEL Ref QC 320 .G57 1983]
- McGraw-Hill encyclopedia of science and technology.* 2002. [SEL Ref Q 121 .M3 2002]
- The optics encyclopedia.* 2004. [SEL Ref QC 351.2 .O64 2004]
- World of physics.* 2001. [SEL Ref QC 5 .W67 2001]

Handbooks, Manuals, Guides, and Tables

- AIP physics desk reference.* 2003. [SEL Ref QC 61 .P49 2003]
- CRC handbook of chemistry and physics.* Annual. [SEL Ref Desk QD 65 .H3] Also online at <http://www.hbcnetbase.com/>
- Formulas, facts and constants for students and professionals in engineering, chemistry and physics.* 1987. [SEL Ref QC 61 .F58 1987]
- Graduate programs in physics, astronomy, and related fields.* Annual. [SEL Ref QC 30 .A552a]
- Guide to information sources in the physical sciences.* 2000. [SEL Ref QC 5.35 .S74 2000]
- Handbook of heat transfer fundamentals.* 1985. [SEL Ref QC 320 .H23 1985]
- Handbook of physical calculations.* 1983. [SEL Ref QC 61 .T85 1983]
- Handbook of physics.* 2002. [SEL Ref QC 1 .H36 2002]
- Handbook of superconductivity.* 2000. [SEL Ref QC 611.924 .P66 2000]
- A physicist's desk reference.* 1989. [SEL Ref QC 61 .P49 1989]
- Style manual for guidance in the preparation of papers for journals published by the American Institute of Physics and its member societies.* 1978. [SEL Ref QC 28 .A5 1978]
- Tables of physical and chemical constants and some mathematical functions.* 1986. [SEL Ref QC 61 .K3 1986]
- Tables on the thermophysical properties of liquids and gases: in normal and dissociated states.* 1975. [SEL Ref QC 145.4 .T6 V3713 1975]

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Physics Collection Specialist:

Andrea L. Duda
805/893-2647 · duda@library.ucsb.edu