



Library PHYSICS Resources

<http://www.library.astate.edu>

Many types of resources are available to you through the Dean B. Ellis Library. This guide is intended to help you find both print and online physics resources. Please note: this guide is only a starting point for your research, it is not meant to be a comprehensive list of resources. If you need further assistance, please visit the Reference Desk in the library.

Finding Books in the Dean B. Ellis Library

All books in the library are arranged by subject using the Library of Congress classification system for call numbers and subject headings. The call number for physics begins with "QC". The basic breakdown is as follows:

Q1 – Q390	-	Science (General)
QB1 – QB991	-	Astronomy
QC1 – QC999	-	Physics

The numbers that follow these beginning letters relate to the narrower scope of the item. For example the call numbers QC474 – QC496.9 represent the topic of radiation physics. An example of this is: [A Primer in Applied Radiation Physics](#) – call # QC475 .S48 2000. Occasionally a totally different call number will appear. This means the item is about more than physics and higher importance was given to the other subject when the call number was assigned.

Selected Reference Books

The Reference collection is located on the second floor of the library.

[Astronomy Encyclopedia](#), rev. ed. New York: Oxford UP, 2002. **REF QB14 .P48 2002**

Baigrie, Brian S., ed. [History of Modern Science and Mathematics](#), 4 vol. New York: Scribner's, 2002. **REF Q125 .H6298 2002**

Clark, Stuart. [Stars and Atoms: From the Big Bang to the Solar System](#). New York: Oxford UP, 1995. **REF QB43.2 .C53 1995**

Cohen, E. Richard. [The Physics Quick Reference Guide](#). Woodbury, NY: American Institute of Physics, 1996. **REF QC61 .C65 1996**

[CRC Handbook of Chemistry and Physics](#). Cleveland, OH: CRC, 1977-. **REF QD65 .H3**

Daintith, John and John Clark, eds. [The Facts On File Dictionary of Physics](#), 3rd ed. New York: Facts On File, 1999. **REF QC5 F34 1999**

Diagram Group. [The Facts On File Physics Handbook](#). New York: Facts On File, 2000. **REF QE5 .F32 2000**

Moore, John H. and Nicholas D. Spencer, eds. [Encyclopedia of Chemical Physics and Physical Chemistry](#), 3 vol. Bristol, UK: Institute of Physics, 2001. **REF QD451 .E539 2001**

Parker, Sybil P., ed. Dictionary of Physics, 2nd ed. New York: McGraw-Hill, 1997.
REF QC5 .M424 1997

Rigden, John S., ed. Macmillan Encyclopedia of Physics, 4 vol. New York: Macmillan, 1996.
REF QC5 .M15 1996

Ridpath, Ian. Norton's Star Atlas and Reference Handbook, Epoch 2000.0, 20th ed. London: Pi P, 2004. **REF QB64 .R46 2004**

Recent Circulating Books

***You can use the call number to browse the shelf for similar materials** Circulating books are labeled "General Collection" in the online catalog and are located on the third, fourth, and fifth floors of the library. If these books are checked out you may place a recall or hold at the Circulation desk.*

Basiu, Dipak, ed. Dictionary of Pure and Applied Physics. Boca Raton, FL: CRC, 2001.
QC5 .D485 2001

Beller, Mara. Quantum Dialogue: The Making of a Revolution. Chicago: U of Chicago P, 1999.
QC174.13 .B45 1999

Botet, R. and Marek Ploszajczak. Universal Fluctuations: The Phenomenology of Hadronic Matter. River Edge, NJ: World Scientific, 2002. **QC793.5 .H32 B68 2002**

Cohen, Bernard and George E. Smith, eds. The Cambridge Companion to Newton. Cambridge, UK: Cambridge UP, 2002. **QC16.N7 C35 2002**

Dixon, Robert M. Physics and Technology for the Liberal Arts, 3rd ed. Dubuque, IA: Kendall, 2003.
QC23.D597 P49 2003

Gamow, George. The Great Physicists from Galileo to Einstein. New York: Dover, 1988.
QC7 .G27 1988

Hawking, Stephen. On the Shoulders of Giants: The Great Works of Physics and Astronomy. Philadelphia: Running Press, 2002. **QC6.2 .O2002**

Hammond, Richard T. From Quarks to Black Holes: Interviewing the Universe. River Edge, NJ: World Scientific, 2001. **QC24.5 .H36 2001**

Hoskin, Michael, ed. Cambridge Concise History of Astronomy. Cambridge, UK: Cambridge UP, 1999. **QB15 .C35 1999**

Hsu, J. P. Einstein's Relativity and Beyond: New Symmetry Approaches. Singapore: World Scientific, 2000. **QC173.65 .H78 2000**

Matzner, Richard A. Dictionary of Geophysics, Astrophysics, and Astronomy. Boca Raton, FL: CRC, 2001. **QB14 .D53 2001**

Pike, Roy and Pierre Sabatier, eds. Scattering: Scattering and Inverse Scattering in Pure and Applied Science. San Diego, CA: Academic P, 2002. **QC794.6.S3 S25 2002**

Roadmap: Fundamental Physics in Space. Pasadena, CA: National Aeronautics and Space Administration, 1999. **QB461 .R53 1999**

Smith, F. A. A Primer in Applied Radiation Physics. Singapore: World Scientific, 2000.
QC475 .S48 2000

Online Article Databases, Indexes & Abstracts

Some of these databases provide the full text of the articles, while others provide only citations and/or abstracts. All are accessed by clicking on the "Article Databases" link from the library homepage.

Database	Citations/ Abstracts	Full Text	Other Information
Academic Search Premier	Yes	Yes	Some articles available full text
Article1st	Yes	No	Provides citations and abstracts only
EBSCOhost EJS	Yes	Yes	Some articles available full text
General Science	Yes	Yes	Some articles available full text
Ingenta	Yes	No	Provides citations and abstracts only
Physical Review A	Yes	Yes	Full text
Physical Review B	Yes	Yes	Full text
Physical Review C	Yes	Yes	Full text
Physical Review D	Yes	Yes	Full text
Physical Review E	Yes	Yes	Full text
Proceedings of the National Academy of the United States of America	Yes	Yes	Full text
Scirus	Yes	Yes	Some articles available full text

Print Indexes and Abstracts

Indexes and abstracts will also lead you to journal and magazine articles on your topic. The printed indexes and abstracts are located in the Reference area of the library.

Applied Science & Technology Index (Index table #2)
Science Abstracts. Series A, Physics Abstracts (Abstracts shelves)

Selected Print Journals in the Dean B. Ellis Library

Print journals from 1980 to present are located on the second floor in the tower. Older print journals are currently on the third floor. All are shelved alphabetically by the title of the journal.

Journal of Chemical Physics
LBL Research Review
Medical Physics
Physical Chemistry Chemical Physics : PCCP
Physical Review. A
Physical Review. B, Condensed Matter
Physical Review, C. Nuclear Physics

Physical Review. D, Particles and Fields
Physical Review. E, Statistical Physics,
Plasmas, Fluids, and Related Interdisciplinary
Topics
Physical Review and Physical Review Letters
Index

Selected Electronic Journals

Electronic journals are accessed via the library's web page by clicking on "Article Databases".

Electronic Journal Title	Database
Canadian Journal of Physics	Academic Search Premier
Communications Series A2 – A3 Physics, Engineering Physics & Astronomy	Academic Search Premier
Physical Reviews. A, B, C, D, & E	Academic Search Premier
Physics Essays	EBSCOhost EJS; American Physical Society
Physics Today	Academic Search Premier
Proceedings of the Estonian Academy of Sciences. Physics, Mathematics	Academic Search Premier
Turkish Journal of Physics	Academic Search Premier

Web Sites—Government

<http://www.nsf.gov/> National Science Foundation
<http://www.ofes.science.doe.gov/> U.S. Dept. of Energy: Office of Science
<http://spacescience.nasa.gov> National Aeronautics and Space Administration: Space Science
<http://www.fnal.gov/> Fermi National Accelerator Laboratory (Fermilab)
<http://ippex.pppl.gov/> IPPEX: Interactive Plasma Physics Education Experience

Web Sites—Other Physics Related

<http://public.web.cern.ch/public/> European Organization for Nuclear Research (CERN)
<http://www.wcer.wisc.edu/nise/> National Institute for Science Education
<http://www.aip.org/> American Institute of Physics
<http://www.iop.org/> Institute of Physics
<http://www.physicscentral.com/> Physics Central
<http://www.iupap.org/> International Union of Pure and Applied Physics
<http://physicsweb.org/resources/> PhysicsWeb: Physics News, Jobs, & Resources
<http://www.aas.org/> American Astronomical Society
<http://www.aapt.org/> American Association of Physics Teachers
<http://www.iupab.org/> International Union for Pure and Applied Biophysics
<http://www.biophysics.org/> Biophysical Society
<http://www.aip.org/education/sps/sigpisig.htm> Sigma Pi Sigma: National Physics Honor Society
<http://www.spsnational.org/index.html> Society of Physics Students
<http://www.ans.org/> American Nuclear Society
<http://www.aps.org> American Physical Society
<http://www.physlink.com/> PhysLink: Physics & Astronomy Online
<http://scienceworld.wolfram.com/physics/> Eric Weisstein's World of Physics

Videos

Videos are located in the Media Services department on the first floor of the library.

Fast Physics. Videocassette. Boston, MA: WGBH Educational Foundation, 1996.
QC125.2 .F26 1996

Physical Science in Action. Videocassette. Produced and directed by First Light Pictures.
Wynnewood, PA: Schlessinger Media, 2000. **QC21.2 .P49 2000**

Quantum Universe. Videocassette. Produced by WETA-TV and the Smithsonian Institution. New York: Unapix Consumer Products, 1996. **QC174.12 .Q7 1996**

Really Big World of Astronomy part 2. Videocassette. Falls Church, VA: Cerebellum Corp., 1997.
QB44 .R4 1997 pt.2

Wolfson, Richard. Einstein's Relativity and the Quantum Revolution: Modern Physics for Non-Scientists. Videocassette. Springfield, VA: Teaching Company, 1997. **QC173.65 .R64 1997**