



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 QC770 – QC798 represent the topic of nuclear physics. An example of this is: Atomic Physics: an Exploration through Problems and Solutions – call # QC776 .B82 2004. 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**

Francoise, Jean-Pierre, Gregory L. Naber and Tsou Sheung Tsun, eds. Encyclopedia of Mathematical Physics. Amsterdam; Boston: Elsevier, 2006. **REF QC20 .E53 2006**

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

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

Rosen, Joe. Encyclopedia of Physics. New York: Facts on File, c2004. **REF QC5 .R596 2004**

Current Books That Can Be Checked Out

***You can use the call number to browse the shelf for similar materials** These books are labeled "General Collection" in the online catalog and are located on the third, fourth, and fifth floors of the library. If the 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

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

Gordon W.F. Drake. Springer Handbook of Atomic, Molecular, and Optical Physics. New York : Springer, c2006. **QC173 .S5985 2006**

Griffiths, David J. Introduction to Quantum Mechanics. Upper Saddle River, NJ : Pearson Prentice Hall, c2005. **QC174.12 .G75 2005**

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**

Hargittai, István. Martians of Science: Five Physicists Who Changed the Twentieth Century. Oxford; New York : Oxford University Press, 2006. **QC15 .H27 2006**

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

Knight, Randall Dewey. Five Easy Lessons: Strategies for Successful Physics Teaching. San Francisco, CA: Addison Wesley, c2004. **QC30 .K55 2004**

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

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

Online 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	Full Text	Other Information
Academic Search Complete	Some	Scholarly and general journals and magazines on all subjects
Applied Science Index	No	Provides citations and abstracts only
General Science	Yes	Some articles available full text
IOP Science	Yes	Access to scientific, technical and medical journals from 1874 to present
IngentaConnect	No	Provides citations and abstracts only; full text articles can be purchased for a fee
Physical Review A	Yes	Atomic, Molecular and Optical Physics
Physical Review B	Yes	Condensed Matter and Material Physics
Physical Review C	Yes	Nuclear Physics
Physical Review D	Yes	Particles, Fields, Gravitation and Cosmology
Physical Review E	Yes	Statistical, Nonlinear, and Soft Matter Physics
Scirus	Yes	Search engine for scientific information linking to websites and providing citations to scientific articles

Available Print Journals In The Dean B. Ellis Library

Print journals from 1980 to present are located on the second floor in the tower and are shelved alphabetically by the title of the journal.

Journal of Chemical Physics
Medical Physics

Physical Chemistry Chemical Physics : PCCP

Currently Available Online Journals

Online journals are accessed via the library's web page by clicking on "Electronic and Print Journals Catalog".

Online Journal Title	Available Through
BMC Medical Physics	BioMedCentral
Chemistry and Physics of Lipids	ScienceDirect Journals
Chinese Physics	IOP Science
Communications Series A2 – A3 Physics, Engineering Physics & Astronomy	Academic Search Complete
Journal of Cosmology and Astroparticle Physics	IOP Science
Medical Physics	EBSCOhost EJS Enhanced
New Journal of Physics	IOP Science; Institute of Physics
Physics Education	IOP Science
Physics in Perspective	Birkhäuser Verlag AG; Academic Search Complete
Pure and Applied Geophysics	Birkhäuser Verlag AG; Academic Search Complete

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://space.science.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

Media

All media items are located in the Media Services department on the first floor of the library.

Einstein's Big Idea. DVD. [Boston, MA]: WGBH Boston Video: WGBH Educational Foundation, c2005. **QC16.E5 E361 2005**

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

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**

Turning Points in the Physical Sciences. DVD. New York, NY: Ambrose Video Pub., c2005. **Q158.5 .T87 2005**