



University of San Carlos
Josef Baumgartner Learning Resource Center



Pathfinder
for
Physics/Applied Physics

www.library.usc.edu.ph

May 2015

Introduction

A pathfinder is a guide to the resources in a particular subject area in the library. It is an instruction/research tool designed to encourage researchers to do a self-directed use of the library.

The Science and Technology Library provide pathfinders basically to support students and faculty in their search for recorded literature and resources available at the USC Library System and accessible on the Net.

Should you have comments, questions and suggestions on this pathfinder, please contact Science and Technology Library at 2300100 local 269 or email to clanticse@usc.edu.ph

Key Term : Physics/Applied Physics

Scope : Physics, science that deals with the structure of matter and the interactions between the fundamental constituents of the observable universe. In the broadest sense, physics (from the Greek *physikos*) is concerned with all aspects of nature on both the macroscopic and submicroscopic levels. Its scope of study encompasses not only the behaviour of objects under the action of given forces but also the nature and origin of gravitational, electromagnetic, and nuclear force fields. Its ultimate objective is the formulation of a few comprehensive principles that bring together and explain all such disparate phenomena.
<http://www.britannica.com/EBchecked/topic/458757/physics.toc32471> [Retrieved August 23, 2014]

Use For

- + Natural philosophy
- + Philosophy, Natural

Broader Term

- + Physical sciences

Related Term

- + Dynamics

FOR BOOKS

BROWSE the library shelves for books with these numbers

500

530

530.03

510.076

539

530.15

530.02855133

571.4

540.2

For more headings use the following subjects and search the Web OPAC for availability of library materials:

Physics

See Also: Thermodynamics.

See Also: Biophysics.

See Also: Electricity.

See Also: Dynamics.

See Also: Quantum theory.

See Also: Geophysics.

See Also: Gravitation.

See Also: Optics.

See Also: Statics.

See Also: Mathematical physics.

See Also: Medical physics.

See Also: Sound.

See Also: Music -- Acoustics and physics.

See Also: Solid state physics.

See Also: Nuclear physics.

See Also: Mechanics.

See Also: Heat.

See Also: Radiation.

See Also: General relativity (Physics)

See Also: Statistical physics. s

See Also: Fluids.

See Also: Field theory (Physics)

See Also: Diffusion.

See Also: Physical metallurgy.

See Also: Force and energy.

See Also: Capillarity.

See Also: Astrophysics.

See Also: Matter.

See Also: Compressibility.

See Also: Ions.

See Also: Ballistics.

See Also: Motion.

See Also: Cosmic physics.

See Also: Nanostructures.

See Also: Mesoscopic phenomena (Physics)

See Also: Psychophysics.

Physics -- Apparatus and instruments.

SEE: Physical instruments

Physics -- Bibliography.

Physics -- Computer simulation. -- Textbooks.

Physics. -- Congresses.

Physics -- Data processing.

Physics -- Data processing -- Textbooks.

Physics -- Databases -- Directories.

Physics -- Dictionaries.

Physics -- Dictionaries -- German.

FOR PERIODICALS

Try the Online Databases via your ISMIS account to find articles on your subject:

- [ACM Digital Library](#)
- [Cambridge Books Online \(ebooks\)](#)
- [CD Asia Online](#)
- [EBSCO HOST](#)
- [Gale Virtual Reference Library](#)
- [iG Publishing \(e-Books\)](#)
- [Journal of Chemical Education](#)
- [LEXIS NEXIS](#)
- [Philippine Journals Online](#)
- [Philippine Periodical Articles](#)
- [Proquest 5000](#)
- [ProQuest eLibrary Elementary](#)
- [SCIENCE DIRECT](#)
- [SCOPUS](#)
- [Springer Link \(e-Journals\)](#)

Don't forget these books at the GENERAL REFERENCE STACK AREA:

Arcellana, Emerenciana Y. (1991). *Philippine science encyclopedia : mathematics and physical sciences*. [Manila] National Research Council of the Philippines. 500.3/P53

Basu, Dipak, ed. (2001). *Dictionary of pure and applied physics*. Boca Raton : CRC Press. 530.03/D56

Chapple, Michael. (2003). *Schaum's A-Z physics*. New York : McGraw-Hill. 530.076/C36

CRC handbook of chemistry and physics on CD-ROM [electronic resource]. (2009). Boca Raton, Fla. : CRC Press. 540.2/H19

CRC handbook of chemistry and physics : a ready-reference book of chemical and physical data. 2012-2013. 93rd ed.. Boca Raton, Florida : CRC. 540.2/H19

- Encyclopedia of mathematical physics.* (2006). Amsterdam ; Boston : Elsevier. 530.1503/En19
- Encyclopedia of earth and physical sciences.* (2006). 2nd ed. New York : Marshall Cavendish. 500.203/En19 13v.
- The Health physics and radiological health handbook.* (1992). Silver Spring, MD : Scinta. 614.839/H34
- Kaye, G. W. C. (1995). *Tables of physical and chemical constants.* Essex, England ; New York : Longman ; [s.l.] : Printed in the Philippines by House of Best Tome Publications. 530.0212/K18
- McGraw-Hill encyclopedia of science & technology : an international reference work in twenty volumes including an index.* (2002). New York : McGraw-Hill. 503/M17
- Parker, Sybil P. (1997). *McGraw-Hill dictionary of physics.* 2nd ed. New York : McGraw-Hill. 530.03/M17
- Shrivastava, S.K. (2006). *International encyclopaedia of physical science and technology.* New Delhi : Anmol Publications. 503/In8. 5v.
- Stern, David. (2000). *Guide to information sources in the physical sciences.* Englewood, Colo. : Libraries Unlimited. 016.53/St45
- Trigg, George L. (1991-1998). *Encyclopedia of applied physics.* New York, NY : VCH Publishers. 530.03/En19

FOR SUBJECT REFERENCES:

- Bauer, W. (2011). *University physics.* New York : McGraw-Hill. 530 B32
- Carlsmith, Duncan. (2013). *Particle physics.* Boston : Pearson. 539.72 C19
- Cutnell, John D. (2013). *Introduction to physics.* 9th International Student Version. Hoboken, NJ : Wiley. 530 C97

- DeVries, Paul L. (2011). *A first course in computational physics*. 2nd ed. Sudbury, Mass. : Jones and Bartlett Publishers. 530.0285 D49
- Force magnitude & direction* [videorecording]. (2010). San Francisco, CA : Cerebellum Corp. 531.6 F74
- Giambattista, Alan. (2013). *College physics : with an integrated approach to forces and kinematics*. 4th McGraw-Hill International Edition. New York, NY : McGraw-Hill. 530 G34
- Hecht, Eugene. (2012). *College physics*. New York : McGraw-Hill. 530.076 H35
- Hewitt, Paul G. (2010). *Conceptual physics*. 11th International ed. Boston : Addison-Wesley. 530 H49
- Jewett, John W. (2010). *Physics for scientists and engineers*. 8th International ed. Australia : Brooks/Cole, Cengage Learning. 530 Se69
- Knight, Randall Dewey. (2013). *College physics : a strategic approach*. 2nd International edition. Boston : Pearson Education International. 530 K74
- Knight, Randall Dewey. (2013). *Physics for scientists and engineers : a strategic approach : with modern physics*. 3rd International Edition. Boston : Pearson. 530 K74
- Matter & energy* [videorecording]. (2010). San Francisco, CA : Distributed by Cerebellum Corporation. 531.6 M42
- Muller-Kirsten, H. J. W. (2013). *Basics of statistical physics*. Hackensack : World Scientific. 530.13 M91
- Phillips, Philip. (2012). *Advanced solid state physics*. Cambridge : Cambridge University Press. 530.41 P54
- Serway, Raymond A. (2012). *College physics*. 9th International ed. Australia : Brooks/Cole Cengage Learning. 530 Se69
- Serway, Raymond A. (2012). *Holt McDougal physics*. Orlando, Fla. : Holt McDougal. 530 Se69

Silver, Jerry. (2009). *125 physics projects for the evil genius*.
New York : McGraw-Hill. 530.078 Si39

Young, Hugh D. (2012). *Sears and Zemansky's university physics :
with modern physics*. 13th International edition. Boston :
Addison-Wesley. 530 Y84

Zinke-Allmang, Martin. (2012). *Physics for the life sciences*. 2nd ed.
Toronto : Nelson Education. 530.02457 Z66

Internet/Web Resources

Scholarpedia <http://www.scholarpedia.org/> Like Wikipedia only more
academically inclined

Science Now <http://sciencenow.sciencemag.org/> Published by the
AAAS
(American Association for the Advancement of Science)

http://library.uncw.edu/eresources/spires_high_energy_physics_literature_database

<https://inspirehep.net/>

<http://adswww.harvard.edu/>

<http://physicsworld.com/> - Physics World - the member magazine of
the Institute of Physics

<https://doaj.org/>

<http://physicsdatabase.com/5-great-websites-for-free-physics-lectures/>

REMEMBER

IF IN DOUBT asks for HELP...

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Librarian

Science & Technology Library

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For inquiries contact: 2300100 local 269 or 0917-631-5180