PHYSICS

Research Guide #60 **University Libraries** **080206/EL-ljl**

LOCATION

All materials listed in this guide can be found in Newman Library. Items marked with an asterisk are also available via the Library homepage. Refer to the charts posted throughout the library for locations of specific call numbers. Those with "Ref" call numbers followed by the abbreviation "Ref Room" are located in the 2nd floor Reference collection. Those with "Ready Ref" call numbers are shelved in the 1st floor Reference area. Older editions of many works may be found in the stacks with the regular collection.

ENCYCLOPEDIAS AND DICTIONARIES

Dictionary of Physics
Call No.: Ref QC5 D53 2004 Ref Room

Dictionary of Pure and Applied Physics
Call No.: Ref QC5 D485 2001 Ref Room

Encyclopedia of Acoustics
Call No.: Ref QC221.5 E53 1997 Ref Room

Encyclopedia of Applied Physics
Call No.: Ref QC5 E543 1991 Ref Room

Encyclopedia of Astronomy and Astrophysics
Call No.: Ref QB14 E54 2001 Ref Room

Encyclopedia of Modern Optics
Call No.: Ref QC351.2 E53 2005 Ref Room

Encyclopedia of Physics
Call No.: Ref QC5 E545 2005 Ref Room

Encyclopedia of Planetary Sciences
Call No.: Ref QB600.2 E53 1997 Ref Room

Macmillan Encyclopedia of Physics
Call No.: QC5 M15 1996 Ref Room

McGraw – Hill Dictionary of Physics
Call No.: Ref QC5 M424 2003 Ref Room

HANDBOOKS

AIP Physics Desk Reference
Call No.: Ref QC61 A37 2003 Ready Ref

AIP Style Manual
Call No.: Ref QC5.45 A45 1990 Ref Room

American Institute of Physics Handbook
Call No.: Ref QC61 A5 Ready Ref

Atomic, Molecular & Optical Physics Handbook
Call No.: QC173 A827 1996

Cambridge Handbook of Physics Formulas
Call No.: QC61 W67 2000

CRC Handbook of Chemistry and Physics *
Call No.: Ref QD65 H3 Ready Ref

Data Book of Astronomy
Call No.: Ref QB64 M623 2000 Ready Ref

Handbook of Physical Quantities
Call No.: Ref QC61 H36 1997 Ref Room

Physics Handbook: Elementary Constants and Units, Tables, Formulae and Diagrams…
Call No.: QC61 N68 1987

Physics Handbook: Fundamentals and Key Equations
Call No.: QC61 P65 1998

Physics Quick Reference Guide
Call No.: Ref QC61 C65 1996 Ref Tower

Tables of Physical and Chemical Constants and Some Mathematical Functions
Call No.: QC61 K3 1986

VNR Index of Chemical and Physical Data
Call No.: QC61 J36 1992

INDEXES AND ABSTRACTS

Use the following to find journal articles, research reports, conference papers, and dissertations.

Chemical Abstracts *
Call No.: QD1 A51
Also available as SciFinder via the Library homepage

Dissertation Abstracts International.
B, The Sciences and Engineering *
Call No.: Z5055 U5 A53 Sec. B

Physics Abstracts *
Call No.: QC1 S3
Also available as Inspec via the Library homepage

Rheology Abstracts
Call No.: Ref QC189 R53 Ref Room

Science Citation Index *
Call No.: Ref Q1 S368 Ref Room
Also available as Web of Science via the Library homepage

Some Subject Areas with Corresponding Library of Congress Numbers:

Physics. History	QC6.9-16	Heat	QC251-338.5
Weights and Measures	QC81-114	Optics. Light	QC350-467
Descriptive and Experimental Mechanics	QC120-168.85	Radiation Physics	QC474-496.9
		Electricity and Magnetism	QC501-766
Atomic Physics. Constitution and Properties of Matter.	QC170-197	Nuclear and Particle Physics. Atomic Energy. Radioactivity	QC770-798
Acoustics, Sound	QC220-246	Geophysics. Cosmic Physics	QC801-809
		Geomagnetism	QC811-845

SUBJECT HEADINGS

To find books on your topic, do a subject search on Addison. Consult the Library of Congress Subject Headings to find appropriate subject terms. Examples of some useful terms include:

Bohr, Niels Henrick David, 1885-1962
Entropy
Heat – Conduction
Nuclear Structure
Photonics
Quantum Field Theory
Standard Model (Nuclear Physics)
Superconductivity

For web-based reference resources also see the Library subject page for Physics at
http://www.lib.vt.edu/dsp/index.php?subject=64