



Library Services Course Guide ~ Physics

About our Course Guides:

Each page is dedicated to the areas covered by the courses offered here at RPCC. Each page lists various types of resources, including printable guides and handouts, suggested databases for research, selected e-books and books in our collection, and links to relevant online resources.

For more information on course offerings, visit the following web pages:

Catalogs: <http://www.rpcc.edu/catalogs.cfm>

Technical Programs: <http://www.rpcc.edu/technicalPrograms.cfm>

Suggested Databases:

Click on any **Databases** link on the Library website to access these. Please note that access from off-campus will require your Library User ID (or Alt ID) & PIN, or, for some resources, a different User ID & Password. See our page on [Using Online Library Resources From Home](#).

- **Academic Search Complete**
- **Encyclopædia Britannica Online**
- **Oxford Reference Online**
- **Salem Science**
- **Science and Technology Collection**

Selected E-Books:

The **eBook Collection** from EBSCOhost is our largest provider of e-books (electronic copies of printed books PDF format), available 24 hours a day, 7 days a week. **eBook Collection** has an easy-to-use search interface. You will be prompted to login with your 12-digit Library User ID to access these e-books from off-campus. Please see our Tutorials on eBook Collection from EBSCOhost for more information.

- *How to Solve Physics Problems*, 1997, by Robert M. Oman & Daniel M. Oman.
- *The Hutchinson Pocket Dictionary of Physics*, 2004.
- *Microsound*, 2001, by Curtis Roads.
- *Physics for the Utterly Confused*, 1999, by Daniel M. Oman & Robert M. Oman.
- *Physics: The People Behind the Science*, 2006, by Katherine E. Cullen.

Visit our eBook Collections, <http://library.rpcc.edu/ebooks.html>, for links to eBook Collection from EBSCOhost and other e-book collections. Please note that books that are still protected by copyright may not be available online in full-text from the free sources.

Locations of Physics Resources in the Library:

Physics-related topics can be found in resources located in these Library of Congress call number ranges:

- **ML3805 to ML3817 - Music: Physics and acoustics.**
- **QC1 to QC999 - Physics.**
 - **QC1 to QC75 - General physics.**
 - **QC170 to QC197 - Atomic physics. Constitution and properties of matter.**
 - **QC221 to QC246 - Acoustics. Sound.**
 - **QC251 to QC338.5 - Heat.**
 - **QC350 to QC467 - Optics. Light.**

- **QC501 to QC766 - Electricity and magnetism.**

Selected Books in the Library:

- ***The Facts on File Physics Handbook***
Call number: **QC 61 .F33 2000**
- ***Invitation to Contemporary Physics, 2nd Edition.***
Call number: **QC 21.2 .H6 2004**
- ***Musical Acoustics*, 3rd Edition.**
Call number: **ML 3805 .H153 2002**
- ***Physics Demystified***
Call number: **QC 23.2 .G54 2002**
- ***Science of Percussion Instruments***
Call number: **ML3805 .R67 2000**

Online Resources:

The following resources have been reviewed and selected in collaboration with relevant faculty. Please note that websites outside of RPCC are beyond our control. We strive to ensure that the sites that we recommend are reliable and valid sources of high-quality information. Please let us know if you find any consistently dead links.

- **Acoustics and Vibration Animations,**
<http://paws.kettering.edu/~drussell/demos.html>

Created by Dan Russell, Ph. D., Assoc. Prof of Applied Physics at Kettering University, Flint, MI. This site includes detailed explanations & formulae in addition to the animations.

- **Eric Weisstein's World of Physics,**
<http://scienceworld.wolfram.com/physics/>

A Wolfram Research site, this online reference source was created by Eric Weisstein, Ph. D. who studied physics and astronomy at Cornell & Caltech universities.

- **physics.org,**
<http://www.physics.org/index.asp>

This resource from the Institute of Physics includes a database of reviewed sites, frequently asked questions, as well as information on careers in physics.

- **PhysicsCentral,**
<http://www.physicscentral.org/>

From the American Physical Society, this site offers a wide range of resources, for varying ages/grade levels.