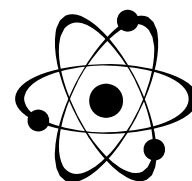




J. Murrey Atkins Library



Physics & Optical Science Newsletter

Volume 3, Issue 2

Spring 2007

Physics & Optical Science
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Check out Services
for Faculty at:

[library.uncc.edu/
faculty](http://library.uncc.edu/faculty)

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Welcome Back!!

Welcome back for Spring Semester 2007! The Atkins Library is pleased to announce:

Atkins Library Launches New Website on January 1st

On January 1st, 2007, Atkins Library began the New Year with a redesigned, user-centric website. Some of the new features include color-coded navigation, user-friendly link labels and tooltips, a news blog with feeds, and a unified search box for simultaneously searching the Library Catalog, website, and Frequently Asked Questions.

The new website should make navigating Library resources, services, and information more clear and consistent. Users can also personalize the site's colors and font sizes. Accessibility features include an optional black and white color scheme, and colorblind friendly considerations (e.g. red doesn't touch green). You can access the library's website at: <http://www.library.uncc.edu>

New LCD Digital Signage at Atkins

The Atkins Library was able to purchase two 46 inch LCD monitors along with software to run digital signage on the Ground and 1st Floors. This signage will enable the Library to communicate with its users and also switch to television broadcast when appropriate. The signs are located by the Information Desk on the first floor and the rotunda by the Ritazza Café on the Ground Floor.

Do you Record your Lectures?

The Library is looking for any faculty who may be recording and/or podcasting their lectures to include in its streaming reserves collections. If you would like to have your recorded lectures available to students for listening over the web on reserves or loaded into recently purchased iPods, please contact the Reserves Supervisor at 704-687-2843.

Blackwell Synergy Journals Now Available Electronically

Blackwell Synergy now is available to the UNCC campus, with 780 journal titles (up from the 178 titles we subscribe to in paper). The main strength of the collection is titles in the sciences adding many basic society and association journals to campus resources.

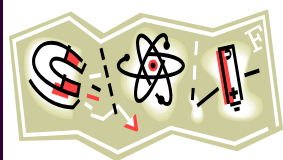
We have access to about 90% of the journals at the site (many from 1999 forward). Journal records should be available in the Atkins Library online catalog in mid-January.

To access them now, simply go to the "Blackwell Synergy" website and select "subscribed journals" or use their subject guide to titles.
<http://www.blackwell-synergy.com/action/showJournals>



Laptops are available for checkout from the circulation desk

“Atkins Library reserves staff will scan your materials so that students can access them via the Internet all semester long.”



Library's Tower Project Update

The Tower 'Reclad Project' is chugging along and is getting closer to completion. Three sides of the tower now have brick masonry and two of them have had windows installed. The library hopes to complete the project during the Spring Semester. Library staff would like to thank all faculty for their patience during this project.

Faculty Article Delivery Service

The Library has been pleased with the popularity of its Faculty Article Delivery Service. UNC Charlotte faculty and staff can have any article (up to 30 pages) from the library's print periodical collection scanned and sent to their desktop without leaving their office or home! Most articles should be received within 24 hours on weekdays.

To request an article, just click on the Interlibrary Loan link from the library's webpage, login to your Interlibrary Loan account, and fill out a request with your citation information. Library staff will process and fill most requests within 24 hours Monday through Friday. Please note that this service is only available to UNC Charlotte Faculty and Staff and must be made from a Faculty or Staff Interlibrary Loan account. Also, we are unable to offer this service for microfilm or microfiche at this time. You may login to or create an Interlibrary Loan account to use this service at:

<http://www.library.uncc.edu/ill>

Ordering Materials

Submit order suggestions for Books, DVDs or other materials to the library representative for your department. Give as complete information as possible—author, title, publication date, edition, price. The library representative will submit the order to our technical services department. As before, we do not currently have funds to order new journal subscriptions unless we give up one of equal cost (for your department). We continue to receive many new journal titles through Science Direct, Wiley Inter-science, Springer, etc.

Helpful Physics, Optics and Science Web Sites

ISIHighlyCited.com

<http://isihighlycited.com>

The Institute for Scientific Information (ISI) now offers a free tool that enables one to find out who the top researchers are in various fields. It identifies most-cited researchers in the broad subject categories of life sciences, medicine, physical sciences, engineering and social sciences for the period 1981-1999. Information about researchers includes position, contact information, personal information, complete bibliographies, patents, grants, awards, etc.

Einstein Archives Online

<http://www.alberteinstein.info>

The Albert Einstein Archives at Hebrew University, the Information Technology and Photo-Reprography Departments of the Jewish National and University Library, and the Einstein Papers Project at the California Institute of Technology have collaborated to publish an excellent Einstein digital archive. The archive is offering digitized manuscripts represented by 3,000 images covering 900 documents, a link to "Finding Aid to the Albert Einstein Archives, which describes Einstein's papers held at Hebrew University, and an archival database of 43,000 records cataloging Einstein's writings, correspondence, notebooks, diaries, etc.

The Newton Project

<http://www.newtonproject.ic.ac.uk>

Formed in 1998, the Newton Project (TNP) aims to make all the surviving works of Sir Isaac Newton available in a form suitable for research by professional scholars.

Physics and astronomy reference

<http://www.physlink.com/Reference/Index.cfm>

The main reference page lists physical constants, astronomy data, and unit conversions, all hyperlinked to provide more information. The table of contents links to constants, equations, a glossary, decimal multiples and prefixes, lists of Nobel notables, etc. The site includes worldwide links to universities with physics and astronomy departments

Research Assistance for Faculty and Students

Research help is available from a variety of sources...

- Reference Desk– staffed by librarians 85 hours a week
- Phone 704-687-2241
- Live Chat (Ask a Librarian) various hours
- <http://library.uncc.edu/ask/>
- By E-mail
- In-office assistance, by appointment or drop-in
- Research Guides
- Web-based tutorials

If you have a specific question send e-mail to bgtierne@email.uncc.edu

Get updates on new publications in your research area with e-alerts

Many of the library's electronic journals offer alert services to update you with new articles or table of contents in your area of research interest. Publishers such as Ingenta, Web of Science, CINAHL, Ovid, Science-Direct, and Springer-Verlag offer this service to UNC Charlotte faculty, staff and students. Once you sign up, these services will periodically send you an e-mail with information to keep you updated on your field of interest. To get more information on which journals and publishers offer this service and how to sign up, please check out the Research and Resources tab from the Faculty Services webpage at <http://library.uncc.edu/faculty>

New Physics/Optical Science Acquisitions

The Library posts lists of newly acquired materials each month for your convenience. Be sure to click on the [What's New](#) link on the library's homepage to see what we have added to our collections. The following titles were added during Fall 2006:

General Science

Q127.U6 K73 2006

Science and technology policy in the United States : open systems in action / Sylvia Kraemer.
New Brunswick, N.J. : Rutgers University Press, c2006.
LOCATION = General Collections.

Q223 .W344 2002

Scientists must speak : bringing presentations to life / D. Eric Walters, Gale Climenson Walters.
London ; New York : Taylor & Francis, 2002.
LOCATION = General Collections.

Q143.H9 S24 2006

The Humboldt current : nineteenth-century exploration and the roots of American environmentalism / Aaron Sachs.
New York : Viking, 2006.
LOCATION = Browsing Collection--Dale Halton Reading Room, 1st Floor.

Q174.8 .A634 2006

The cognitive structure of scientific revolutions / Hanne Andersen, Peter Barker, Xiang Chen.
Cambridge ; New York : Cambridge University Press, c2006.
LOCATION = General Collections.

Q141 .S556 2006

Sisters in science : conversations with black women scientists about race, gender, and their passion for science / [interviews by] Diann Jordan.
West Lafayette, Ind. : Purdue University Press, c2006.
LOCATION = General Collections.

Q151 .B67 2006

Space, time, matter, and form : essays on Aristotle's physics / David Bostock.
Oxford, U.K. : Clarendon Press : Oxford ; New York : Oxford University Press Inc., New York, c2006.
LOCATION = General Collections.

Q155 .G28513 2006

Thus spoke Galileo : the great scientist's ideas and their relevance to the present day / [edited by] Andrea Frova and Mariapia Marenzana ; translated by Jim McManus in collaboration with the authors.
Oxford ; New York : Oxford University Press, 2006.
LOCATION = General Collections.

Q175.52.S65 G73 2006

Moscow stories / Loren R. Graham.
Bloomington : Indiana University Press, c2006.
LOCATION = General Collections.

Q223 .V574 2006

Visual cultures of science : rethinking representational practices in knowledge building and science communication / edited by Luc Pauwels.
Hanover, N.H. : Dartmouth College Press : University Press of New England, c2006.
LOCATION = General Collections

Astronomy:

QB41.A73 S56213 2006

On Aristotle's "On the heavens 1.10-12" / Simplicius ; translated by R.J. Hankinson.
Ithaca, N.Y. : Cornell University Press, 2006.
LOCATION = General Collections.

QB14 .G73 1996

Companion to the cosmos / John Gribbin.
Boston : Little, Brown and Co., c1996.
LOCATION = General Collections.

QB721.5 .S63 1999

Small bodies, big impact, cool comets [videorecording] ; Small bodies, big impact, awesome asteroids / a production of the Oklahoma State University Teaching from Space Program ; host/producer/writer, Kate Ferrall.
[United States : NASA CORE [distributor], 1999]
LOCATION = nasa.

QB981 .A45 2002

The new cosmology / by Harold W.G. Allen.
Spring Hill, FL, U.S.A. : Perspective Books, c2002.
LOCATION = General Collections.

QB981 .D275 2001

Don't know much about the universe : everything you need to know about the cosmos but never learned / Kenneth C. Davis.
New York : HarperCollins, 2001.
LOCATION = General Collections.

QB82.U62 S63 2006

The last of the great observatories : Spitzer and the era of faster, better, cheaper at NASA / George H. Rieke.
Tucson, Ariz. : University of Arizona Press, c2006.
LOCATION = General Collections.

QB63 .K47 1998

Photo-guide to the constellations : a self-teaching guide to finding your way around the heavens / Chris Kitchin.
London ; New York : Springer, c1998.
LOCATION = General Collections.

Physics:

QC173.6 .H63 2006

General relativity : an introduction for physicists / M.P. Hobson, G.P. Efstathiou and A.N. Lasenby.
Cambridge, UK ; New York : Cambridge University Press, 2006.
LOCATION = General Collections.

QC921 .P74 2006

The cloudspotter's guide : the science, history, and culture of clouds / Gavin Pretor-Pinney ; chapter illustrations by Bill Sanderson.
New York : Perigee Book, 2006.
LOCATION = Browsing Collection--Dale Halton Reading Room, 1st Floor.

QC1 .P392

Workshop on New Directions of Advanced Computer Simulations and Experiments in Fusion-Related Plasma-Surface Interactions [electronic resource] : 21-23 March 2005, Oak Ridge National Laboratory, Oak Ridge, TN, USA / editors: J.T. Hogan, P.S. Krstic and F.W. Meyer.
[Stockholm] : Royal Swedish Academy of Sciences/[Bristol] : IOP Pub, c2004-
LOCATION = Architecture Periodicals - Storrs Bldg, 2nd Floor.

QC173.585 .C74 2006

Einstein's jury : the race to test relativity / Jeffrey Crelinsten.
Princeton, N.J. : Princeton University Press, c2006.
LOCATION = General Collections.

QC174.13 .R67 2006

Quantum enigma : physics encounters consciousness / Bruce Rosenblum and Fred Kuttner.
Oxford ; New York : Oxford University Press, 2006.
LOCATION = General Collections.

QC446.2 .F69 2006

Quantum optics : an introduction / Mark Fox.

Oxford, U.K. ; New York : Oxford University Press, c2006.
LOCATION = General Collections.

QC753.2 .G38 2006

Molecular nanomagnets / Dante Gatteschi, Roberta Sessoli, Jacques Villain.
Oxford, U.K. ; New York : Oxford University Press, c2006.
LOCATION = General Collections.

QC794.6.S85 W65 2006

Not even wrong : the failure of string theory and the search for unity in physical law / Peter Woit.
New York : Basic Books, c2006.
LOCATION = Browsing Collection--Dale Halton Reading Room, 1st Floor.

QC879.8 .I63 2005

IPCC special report on carbon dioxide capture and storage / edited by Bert Metz ... [et al.] ; prepared by Working Group III of the Intergovernmental Panel on Climate Change.
Cambridge : Cambridge University Press for the Intergovernmental Panel on Climate Change, c2005.

Recent Orders (Short records):

3D LASER MICROFABRICATION : PRINCIPLES AND APPLICATIONS / EDITED BY HIROAKI MISAWA AND SAULIUS JUODKAZIS.

ADVANCES IN ASTRONOMY FROM THE BIG BANG TO THE SOLAR SYSTEM.

AFTER THE BEGINNING : A COSMIC JOURNEY THROUGH SPACE AND TIME / NORMAN K. GLENDENNING.

ASTRONOMICAL SPECTROSCOPY AN INTRODUCTION TO THE ATOMIC AND MOLECULAR PHYSICS OF ASTRONOMICAL SPECTRA.

THE BLACK HOLE AT THE CENTER OF THE MILKY WAY.

BLACK HOLES AN INTRODUCTION.

COMPACT STELLAR X-RAY SOURCES.

CONFINED ELECTRONS AND PHOTONS : NEW PHYSICS AND APPLICATIONS / EDITED BY ELIAS BURSTEIN AND CLAUDE WEISBUCH.

DAVID LEVY'S GUIDE TO VARIABLE STARS.

A DIFFERENT APPROACH TO COSMOLOGY : FROM A STATIC UNIVERSE THROUGH THE BIG BANG TOWARDS REALITY.

EINSTEIN, BOHR, AND THE QUANTUM DILEMMA FROM
QUANTUM THEORY TO QUANTUM INFORMATION.

FAST LIGHT, SLOW LIGHT, AND LEFT-HANDED LIGHT / P.W.
MILONNI.

GALACTIC AND SOLAR SYSTEM OPTICAL ASTROMETRY :
PROCEEDINGS OF THE ROYAL GREENWICH
OBSERVATORY AND THE INSTITUTE OF ASTRONOMY
WORKSHOP HELD IN CAMBRIDGE, JUNE 21-24, 1993 /
EDITED BY L.V. MORRISON AND G.F. GILMORE.

HANDBOOK OF CCD ASTRONOMY.

THE IDEAS OF PARTICLE PHYSICS AN INTRODUCTION FOR
SCIENTISTS.

IN SEARCH OF DARK MATTER.

AN INTRODUCTION TO ASTROPHYSICAL FLUID DYNAMICS.

AN INTRODUCTION TO COMPUTATIONAL PHYSICS.

JOURNEY TO THE STARS.
THE LOCAL GROUP AS AN ASTROPHYSICAL LABORATORY
PROCEEDINGS OF THE SPACE TELESCOPE SCIENCE
INSTITUTE SYMPOSIUM ..

METEOR SHOWERS AND THEIR PARENT COMETS.

THE OBSERVATION AND ANALYSIS OF STELLAR
PHOTOSPHERES.

OBSERVATIONAL ASTRONOMY.

OPTICAL PROPERTIES OF METAL CLUSTERS / UWE
KREIBIG, MICHAEL VOLLMER.

PHOTONIC CRYSTAL FIBRES / BY ANDERS BJARKLEV, JES
BROENG, ARACELI SANCHEZ BJARKLEV.

PHOTONIC CRYSTALS : PHYSICS, FABRICATION, AND
APPLICATIONS / K. INOUE, K. OHTAKA

THE PHYSICS OF THE COSMIC MICROWAVE BACKGROUND.

QUANTUM MECHANICS CLASSICAL RESULTS, MODERN
SYSTEMS, AND VISUALIZED EXAMPLES.

QUARK-GLUON PLASMA FROM BIG BANG TO LITTLE BANG.

RARE-EARTH-DOPED FIBER LASERS AND AMPLIFIERS /
EDITED BY MICHEL J.F. DIGONNET.

RELATIVITY SPECIAL, GENERAL AND COSMOLOGICAL.

RF PHOTONIC TECHNOLOGY IN OPTICAL FIBER LINKS /
EDITED BY WILLIAM S.C. CHANG.

THE STATE OF THE UNIVERSE A PRIMER IN MODERN
COSMOLOGY.

STATISTICAL PROBLEMS IN PARTICLE PHYSICS,
ASTROPHYSICS AND COSMOLOGY PROCEEDINGS OF
PHYSTAT05, OXFORD, UK, 12-15 SEPTEMBER 2005.

TOPICS IN STATISTICAL MECHANICS.