

The University of Manchester Library Content Development Policy Physics and Astronomy

Monday, 30 April 2012

Contents

Introduction	2
Collection evaluation	2
Bookfund and resource allocations.....	3
Collection areas.....	3
Document Supply Service and Inter-Library Loans.....	5
Teaching and Learning	5
Digitisation.....	6
Manchester e-Scholar.....	6
Stock editing	6
Donations	6
Recommendations	7
Contacts	7
Appendices	8
Appendix 1: Stock overview	8
Appendix 2: Book purchases 2009-10	11
Appendix 3: Current journal subscriptions	35
Appendix 4: Non-journal subscriptions.....	60

Introduction

This document presents the Content Development Policy for the School of Physics and Astronomy. It includes a description of the Library's existing collections and an outline of current collecting areas.

Set within the context provided by an overall [Content Development Policy](#) and a related [Collection Management Policy](#), its purpose is to ensure that the selection of resources - books, journals, and other kinds of material – whether print, electronic or other format, reflect the teaching and research priorities of the School and provide best value in both financial and academic terms.

This document will be reviewed and revised on a regular basis.

Collection evaluation

The Library has substantial collections in all fields of physics and astronomy, and includes books and journals, in print and digital formats. The principal collection of printed books, including reading list items, is kept on Blue 2 in the Main Library. A significant collection of reading list items is also housed in the Braddick Library. Most physics and astronomy books are shelved at 530-539.99 and 520-529.99, respectively.

Appendix 1 provides an overview of the physics and astronomy bookstock by classmark, date of publication, and location.

Appendix 2 lists the books purchased from the Library's bookfund for the School of Physics and Astronomy during the 2009-10 financial year, excluding items purchased as part of other subscriptions.

Appendix 3 lists current journal subscriptions in the area of physics and astronomy. Because of the difficulties in deciding on what constitutes a physics or astronomy journal, it is not necessarily a complete list. However all journal holdings and subscriptions are listed in the Library catalogue, and all subscriptions to electronic journals are listed in its E-Journals A-Z listing.

Appendix 4 lists other relevant subscriptions to bibliographic databases, full text resources (including book collections), and datasets in the area.

The Library has important Special Collections holdings, both printed and manuscript or archival, relating to the history of this subject, particularly astronomy. Printed collections include works on physics and astronomy from the Renaissance onwards, and there are two outstanding archive collections on modern astronomy, the Jodrell Bank Archive and Zdenek Kopal papers. Smaller collections relating to physics include the papers of James Prescott Joule and Arthur Schuster.

The Library does not actively collect Special Collections material in this area, and purchases of material are generally considered a low priority. However we will give careful consideration to any offers to donate or deposit Special Collections material in this area.

Further information is provided in the Collection Development Policy for the history of science, technology and medicine.

Bookfund and resource allocations

Bookfunds are allocated in June/July each year for the following financial year (which runs from August through July). This bookfund is to provide for all non-subscription library materials including printed textbooks and research monographs, electronic books, and any other one-off purchase requirements.

Journals and other subscription items are purchased from a separate fund which at present accounts for over 85% of the cost of all purchases.

Collection areas

To support the School's scholarly and research activities the Library will acquire material published in the areas listed below, as well as related areas in physics, astronomy, and other disciplines, as required.

- a) **Astronomy and Astrophysics**
 - i. **Cosmology**
 - Cosmic Microwave Background
 - Early Universe
 - Large-scale Structure
 - ii. **Galactic Astrophysics**
 - Astrochemistry
 - Galactic Structure
 - Interstellar Dust
 - Star Formation and Evolution
 - iii. **Galaxies and Clusters**
 - Active Galaxies
 - Black Holes
 - Dark Matter
 - Gravitational Lensing
 - Quasars
 - Starbursts
 - iv. **Pulsar Astrophysics**
 - Gravitational Wave Background
 - Pulsars
 - v. **Sun and Planets**
 - Extrasolar Planets
 - Solar Plasmas

- vi. Technology
 - Signal Transport
 - Technology Development
 - Waveguide Devices
- b) Biological Physics**
- i. Biocomputing and Integrative Systems Biology
 - ii. Biointerfaces
 - Antibody-Antigen binding
 - Biomaterials Development
 - Controlled Local Drug and Gene Delivery
 - Tissue Engineering
 - iii. Biomolecular Structure and Dynamics
 - iv. Intracellular Particle Tracking and Self-Assembly
- c) Complexity and Statistical Physics**
- i. Agent-based Modelling
 - ii. Biological Dynamics
 - iii. Biological Modelling
 - iv. Complex Systems
 - v. Nonlinear Dynamics
- d) Condensed Matter Physics**
- i. Graphene and Two-Dimensional Materials
 - ii. Magnetic Domains
 - iii. Magnetic Levitation
 - iv. Microfabricated Adhesives
 - v. NanoOptics
 - vi. Quantum Fluids
 - vii. Superconductivity
- e) Nonlinear and Liquid Crystal Physics**
- i. Fluid Flow
 - ii. Liquid Crystals
 - iii. Photoreceptor Cells
- f) Nuclear Physics**
- i. Fission Fragments
 - ii. Nuclear Isomers
 - iii. Radioactive Isotopes
 - iv. Shell Structure of Nuclei
- g) Photon Physics**
- i. Atomic and Molecular Interactions
 - Electron Excitation and Ionization
 - Laser Excitation and Ionization Studies
 - Laser-Atom Trapping and Manipulation
 - Synchrotron Radiation Studies

- ii. Laser Photonics
 - Laser Applications
 - Laser Development
 - Laser Photo-medicine and Dentistry
 - Nonlinear Optics
- iii. Spectroscopy of Semiconductors
- iv. Surface and Nanoparticle Spectroscopy

h) Particle Physics

- i. Computer Simulations
- ii. CP Violation
- iii. Gauge Theories
- iv. Higgs Physics
- v. High Energy Physics
- vi. High Energy Physics
- vii. Neutrino Physics
- viii. Particle Accelerators
- ix. Particle Detectors
- x. Phenomenology of Elementary Particles
- xi. Physics of the Early Universe
- xii. Proton Physics
- xiii. Quantum Chromodynamics
- xiv. Standard Model
- xv. Supersymmetry and String Phenomenology

i) Theoretical Nuclear Physics

- i. High Energy Physics
- ii. Nuclear Physics

Document Supply Service and Inter-Library Loans

Although the Library will try to accommodate all requests for purchase, books which lie outside the areas listed above, or are out of print, can be obtained on loan from another library through the [Document Supply Service](#). Such books are usually borrowable for up to 6 weeks at a time. Journal articles and other material not available from within the Library's collections can also be obtained through this service.

Teaching and Learning

The Library will support all taught course modules.

Multiple copies and / or electronic copies of texts will be purchased or subscribed to as appropriate. Subject to copyright restrictions the Library will digitise materials, for instance book chapters, or journal articles not otherwise available electronically, if required for taught course modules.

Reading lists and estimated student numbers should be made available to the Faculty Team Librarian by July 31 and November 30 each year so any new material can be purchased and processed in time for the forthcoming semester.

The library's software package [Link2Lists](#) affords the opportunity of creating multi-media **resource lists**. Hyperlinks to audio files, video clips, podcasts and the like can all be included in a resource list, alongside traditional bibliographic references to print material, e-books and journal articles, which can link directly through to entries in the Library catalogue. Library staff can provide training and support to academic staff interested in using Link2Lists software, and embedding resource lists into Blackboard modules.

Reading list texts can be assigned 7-day loan periods, or put into the [High Demand Collection](#), which offers yet shorter borrowing periods.

Digitisation

Subject to copyright restrictions the Library will digitise material according to its [Digitisation Strategy](#). Priorities include reading list items – book chapters or journal papers – and items from Special Collections.

Manchester e-Scholar

The University's institutional repository, [Manchester eScholar](#), manages and disseminates the intellectual outputs of the university. Since the beginning of 2010 all accepted PhD theses have been added to the repository.

Stock editing

Most stock is kept on the Library's open shelves. As space is at a premium, especially in the Main Library, periodic weeding is used to remove less-well used material to store from where it can be retrieved usually within one working day.

Unused duplicates are disposed of from time to time.

Weeding and withdrawal criteria are described in the [Collection Management Policy](#).

Donations

Offers of donations are welcome, but they can normally only be considered for acceptance if they are within the collection areas detailed above.

Other factors taken into account in deciding upon acceptance are listed in the [Collection Management Policy](#).

Recommendations

The Library welcomes recommendations for the purchase of books from staff and students of the School. Purchases are normally made if:

- recommendations fall within the scope of the policy as described above;
- funds are available;
- the item is not already in stock.

Usually:

- only a single copy of a printed book is purchased;
- books must be written in English;
- books must be of an appropriate academic standard.

For reading list texts, multiple copies and electronic versions will be considered as appropriate.

Recommendations for book purchases should be made through the relevant School Library Representative; Professor Alan McKane (Physics) and Dr Tim O'Brien (Astronomy). Book recommendations can also be directed through the Faculty Team Librarian; Chris Gibson.

Journal recommendations are considered twice a year in March and November. Because of the forward financial commitment involved, journal subscriptions usually have to be balanced by savings elsewhere in the subscription budget. Recommendations should be made through the relevant School Library Representative.

Contacts

- Faculty Team Librarian, Physics and Astronomy:
Chris Gibson
0161-275-8713
chris.gibson@manchester.ac.uk
- School of Physics and Astronomy, Library Representatives:
Professor Alan McKane (Physics)
0161-275-4192
alan.mckane@manchester.ac.uk

Dr. Tim O'Brien (Astronomy)
0161-275-4165
tim.obrien@manchester.ac.uk

Appendices

Appendix 1: Stock overview

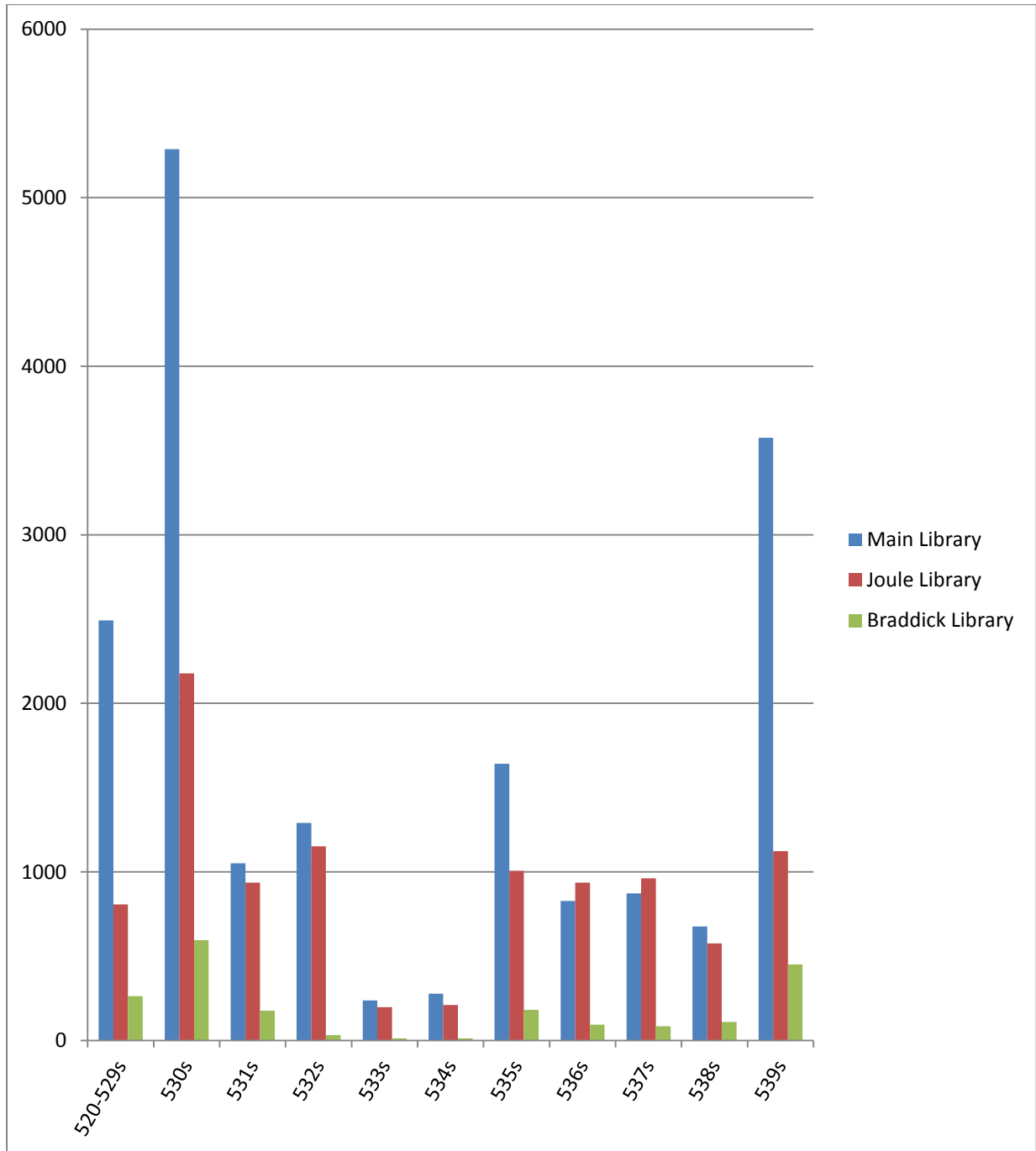


Figure 1. Number of items on open shelves at Dewey classifications for physics and astronomy

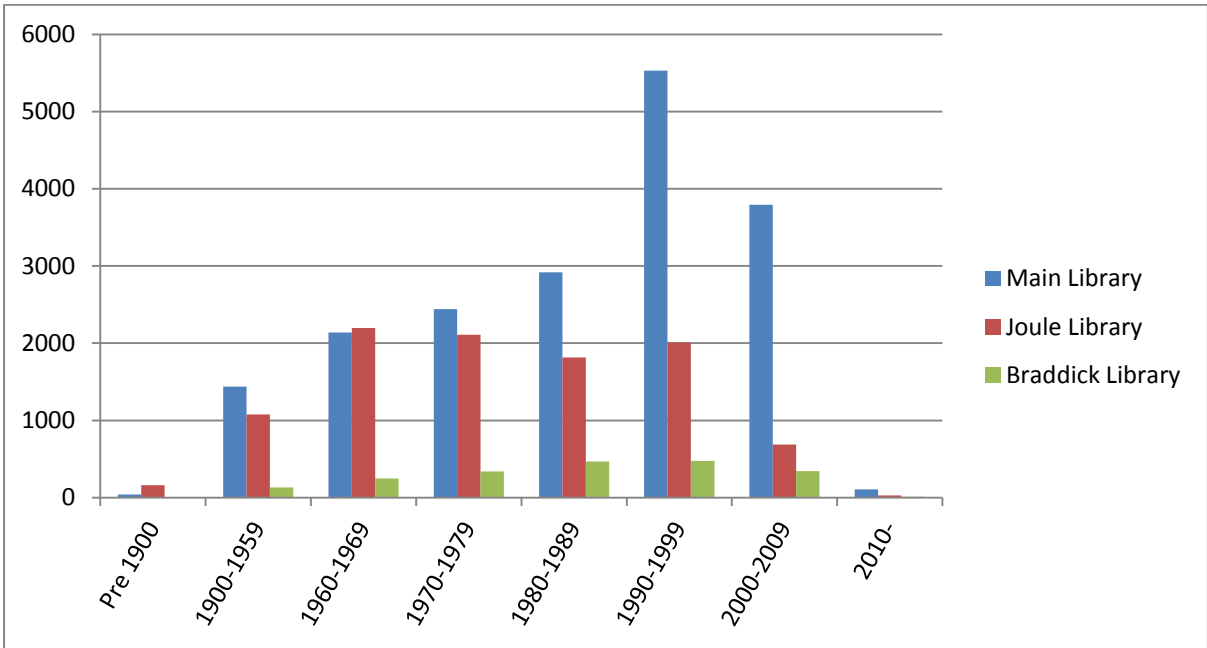


Figure 2. Number of items on open shelves at Dewey classifications for physics and astronomy, by dates of publication

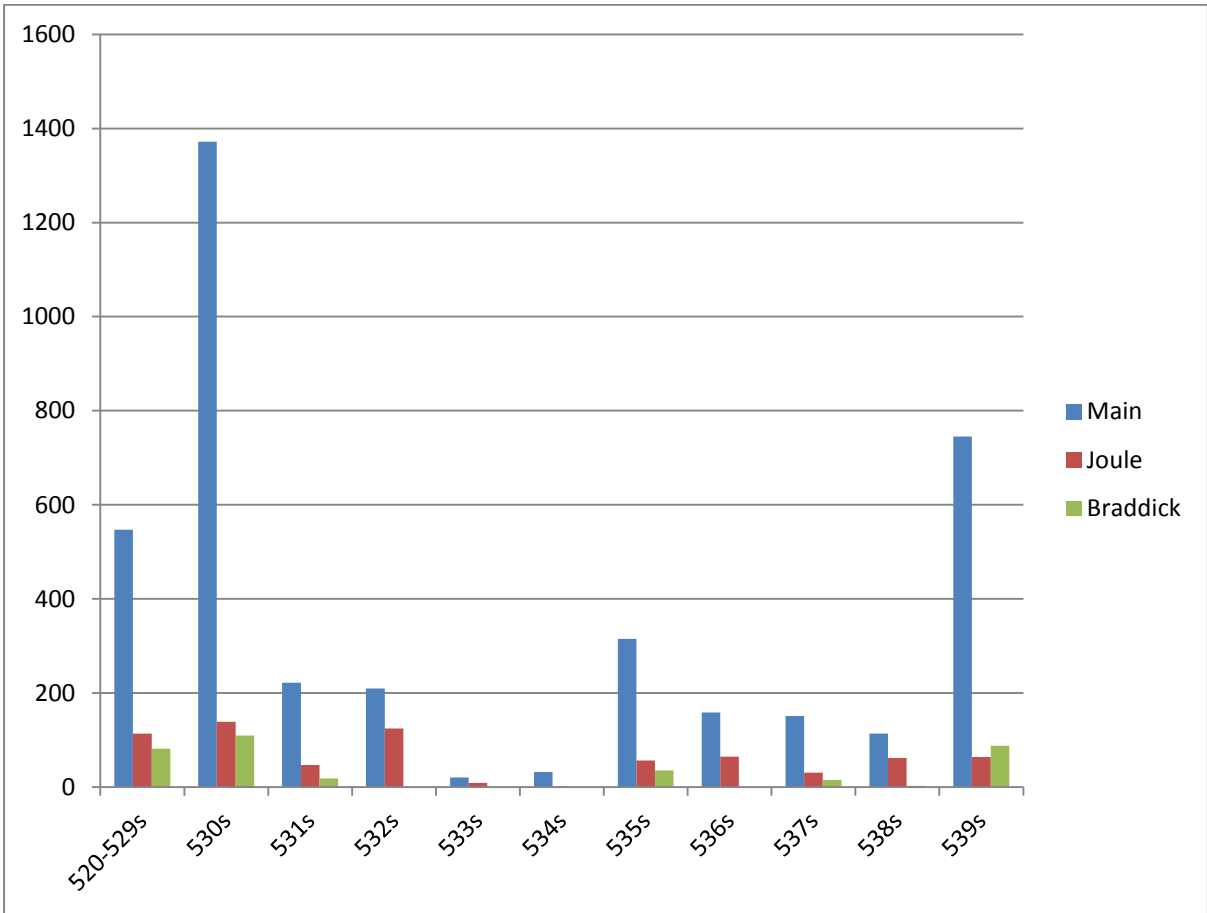


Figure 3. Number of items on open shelves at Dewey classifications for physics and astronomy, where publication date ≥ 2000

Appendix 2: Book purchases 2009-10

Author	Title	Pub. Date	Sequence	Classmark
Yip, S.	Scientific modeling and simulations	2009	Blue Area Floor 2	003.3
Hartmann, Alexander K.	Practical guide to computer simulations	2009	Blue Area Floor 2	003.3
Dorogovtsev, S. N.	Lectures on complex networks	2010	Blue Area Floor 2	003.72
Newman, M. E. J.	Networks : an introduction	2010	Blue Area Floor 2	003.72
Nicolis, G.	Foundations of complex systems : nonlinear dynamics statistical physics and prediction	2007	Blue Area Floor 2	003.75
Montangero, S.	Quantum information and many body quantum systems : proceedings	2008	Blue Area Floor 2	004.1
Morsch, Oliver	Quantum bits and quantum secrets : how quantum physics is revolutionizing codes and computers	2008	Blue Area Floor 2	004.18
Stolze, Joachim	Quantum computing : a short course from theory to experiment	2008	Blue Area Floor 2	004.18
Barlow, Roger	Computing for scientists : principles of programming with Fortran 90 and C [plus plus]	1998	Recommended Books	005.1
Kamath, Chandrika	Scientific data mining : a practical perspective	2009	Blue Area Floor 2	006.312
Broch, Henri	Exposed! : ouija, firewalking, and other gibberish	2009	Blue Area Floor 2	133
Miller, Arthur I.	Deciphering the cosmic number : the strange friendship of Wolfgang Pauli and Carl Jung	2009	Blue Area Floor 2	133.335
Cockshott, W. P.	Classical econophysics	2009	Blue Area Floor 2	311.3
Laughlin, Robert B.	The crime of reason : and the closing of the scientific mind	2008	Blue Area Floor 2	323
Bouchaud, Jean-Philippe	Theory of financial risk and derivative pricing : from statistical physics to risk management	2009	Blue Area Floor 2	332.6

Author	Title	Pub. Date	Sequence	Classmark
Epps, T. W.	Quantitative finance : its development, mathematical foundations, and current scope	2009	Blue Area Floor 2	332.6
Baaquie, B. E.	Interest rates and coupon bonds in quantum finance	2010	Blue Area Floor 2	336.31
Williams, Terry	Post project reviews to gain effective lessons learned	2007	Blue Area Floor 2	338.93
Younger, Stephen Michael	The bomb : a new history	2009	Blue Area Floor 2	355.43
Anduaga, Aitor	Wireless and empire : geopolitics, radio industry, and ionosphere in the British Empire, 1918-1939	2009	Blue Area Floor 2	384.5
Brooks, Michael	13 things that don't make sense : the most baffling scientific mysteries of our time	2009	Blue Area Floor 2	500
Haldane, J. B. S.	What I require from life : writings on science and life from J.B.S. Haldane	2009	Blue Area Floor 2	500
Hargittai, Magdolna	Visual symmetry	2009	Blue Area Floor 2	500
Reich, Eugenie Samuel	Plastic fantastic : how the biggest fraud in physics shook the scientific world	2009	Blue Area Floor 2	500.881
Glasman-Deal, Hilary	Science research writing : for non-native speakers of English	2010	Blue Area Floor 2	501.49
<i>Işsever, Çiğdem</i>	Presenting science : a practical guide to giving a good talk	2010	Blue Area Floor 2	501.49
Johnson, George	The ten most beautiful experiments	2009	Blue Area Floor 2	507
<i>Delbrück, Matthias</i>	The sciencebook : everything you need to know about the world and how it works	2008	Blue Area Floor 2	509
Chapman, Stephen J.	MATLAB programming for engineers	2008	High Demand	510.18
Chapman, Stephen J.	MATLAB programming for engineers	2008	Recommended Books	510.18
Riley, K. F.	Mathematical methods for physics and engineering	2006	Recommended Books	510.2
Boas, Mary L.	Mathematical methods in the physical sciences	2006	Blue Area Floor 2	510.245

Author	Title	Pub. Date	Sequence	Classmark
Riley, K. F.	Mathematical methods for physics and engineering	2006	High Demand	510.245
Riley, K. F.	Student solutions manual for Mathematical methods for physics and engineering	2006	Blue Area Floor 2	510.245
Gonnet, G. H.	Scientific computation	2009	Blue Area Floor 2	510.285
Weisstein, E. W.	CRC encyclopedia of mathematics	2009	Blue 2 Ref.	510.3
Arora, Sanjeev	Computational complexity : a modern approach	2009	Blue Area Floor 2	511.352
Kung, J. P. S.	Combinatorics : the Rota way	2009	Blue Area Floor 2	511.6
Velten, Kai	Mathematical modeling and simulation : introduction for scientists and engineers	2009	Blue Area Floor 2	511.8
Huang, Jing-Song	Lectures on representation theory	1999	Blue Area Floor 2	512.22
Silvestrov, S.D.	Generalized Lie theory in mathematics, physics and beyond	2009	Blue Area Floor 2	512.482
Akcoglu, Mustafa A.	Analysis in vector spaces : a course in advanced calculus	2009	Blue Area Floor 2	512.52
Olive, D.	Kac-Moody and Virasoro algebras : a reprint volume for physicists	1988	Blue Area Floor 2	512.55
Hardy, G. H.	An introduction to the theory of numbers	2008	Blue Area Floor 2	512.7
Schroeder, M. R.	Number theory in science and communication : with applications in cryptography, physics, digital information, computing, and self-similarity	2009	Blue Area Floor 2	512.74
Ding, Jiu	Nonnegative matrices, positive operators, and applications	2009	Blue Area Floor 2	512.9434
Lewis, David W.	Matrix theory	1991	Blue Area Floor 2	512.9434
Anton, Howard	Calculus	2010	Blue Area Floor 2	515
Oldham, Keith B.	An atlas of functions : with Equator, the Atlas Function Calculator	2008	Blue Area Floor 2	515
Broughton, S. Allen	Discrete Fourier analysis and wavelets : applications to signal and image processing	2009	Blue Area Floor 2	515.2433

Author	Title	Pub. Date	Sequence	Classmark
Van Fleet, Patrick J.	Discrete wavelet transformations : an elementary approach with applications	2008	Blue Area Floor 2	515.2433
Jordan, D. W.	Nonlinear ordinary differential equations : an introduction for scientists and engineers	2007	High Demand	515.352
Jordan, D. W.	Nonlinear ordinary differential equations : an introduction for scientists and engineers	2007	Recommended Books	515.352
Makarets, M. V.	Ordinary differential equations and calculus of variations: book of problems	1995	Blue Area Floor 2	515.352
Driscoll, Tobin A.	Learning MATLAB	2009	Blue Area Floor 2	518.0285
Higham, D. J.	MATLAB guide	2005	Recommended Books	518.0285
Kalos, Malvin H.	Monte Carlo methods	2008	Blue Area Floor 2	518.282
Atkinson, Kendall E.	Numerical solution of ordinary differential equations	2009	Blue Area Floor 2	518.63
Quarteroni, Alfio	Numerical models of differential problems	2009	Blue Area Floor 2	518.64
Gardiner, C. W.	Handbook of stochastic methods	2009	Blue Area Floor 2	519.23
Jacobs, Kurt	Stochastic processes for physicists	2010	Blue Area Floor 2	519.23
Fisher, Len	Rock, paper, scissors : game theory in everyday life	2008	Blue Area Floor 2	519.3
Harsanyi, John C.	A general theory of equilibrium selection in games	1988	Blue Area Floor 2	519.3
Currell, Graham	Essential mathematics and statistics for science	2009	Blue Area Floor 2	519.5
Klemens, Ben	Modeling with data : tools and techniques for scientific computing	2009	Blue Area Floor 2	519.5
Wu, Chien-Fu	Experiments : planning, analysis, and optimization	2009	Blue Area Floor 2	519.57
Levy, Adam B.	The basics of practical optimization	2009	Blue Area Floor 2	519.6
Galilei, Galileo	Thus spoke Galileo : the great scientist's ideas and their relevance to the present	2006	Blue Area Floor 2	520.92

Author	Title	Pub. Date	Sequence	Classmark
Melia, Fulvio	High-energy astrophysics	2009	Blue Area Floor 2	521
Melia, Fulvio	High-energy astrophysics	2009	Recommended Books	521
O' Mathu'na, Diarmuid	Integrable systems in celestial mechanics	2008	Blue Area Floor 2	521.1
Labeyrie, A.	An introduction to optical stellar interferometry	2006	Blue Area Floor 2	522.2
Baumjohann, W.	Basic space plasma physics	1996	Blue Area Floor 2	523.03
Baumjohann, W.	Basic space plasma physics	1996	High Demand	523.03
Baumjohann, W.	Basic space plasma physics	1996	Recommended Books	523.03
Bradt, Hale	Astrophysics processes : the physics of astronomical phenomena	2008	Blue Area Floor 2	523.03
Bradt, Hale	Astrophysics processes : the physics of astronomical phenomena	2008	High Demand	523.03
Bradt, Hale	Astrophysics processes : the physics of astronomical phenomena	2008	Recommended Books	523.03
Carroll, Bradley W.	An introduction to modern astrophysics	2007	Blue Area Floor 2	523.03
Carroll, Bradley W.	An introduction to modern astrophysics	2007	High Demand	523.03
Carroll, Bradley W.	An introduction to modern astrophysics	2007	Recommended Books	523.03
Mollerach, Silvia	Gravitational lensing and microlensing	2002	Blue Area Floor 2	523.03
Perkins, Donald H.	Particle astrophysics	2003	Blue Area Floor 2	523.03
Rybicki, George B.	Radiative processes in astrophysics	2004	Blue Area Floor 2	523.03
Rybicki, George B.	Radiative processes in astrophysics	2004	Recommended Books	523.03
Carmeli, M.	Relativity : modern large-scale spacetime structure of the cosmos	2008	Blue Area Floor 2	523.1
Woolfson, M. M.	Time, space, stars & man : the story of the big bang	2008	Blue Area Floor 2	523.1
Binney, James	Galactic astronomy	1998	Recommended Books	523.112
Binney, James	Galactic dynamics	2008	Blue Area Floor 2	523.112

Author	Title	Pub. Date	Sequence	Classmark
Binney, James	Galactic dynamics	2008	Recommended Books	523.112
Sparke, Linda Siobhan	Galaxies in the universe : an introduction	2007	Blue Area Floor 2	523.112
Sparke, Linda Siobhan	Galaxies in the universe : an introduction	2007	Recommended Books	523.112
Whittet, D. C. B.	Dust in the galactic environment / D.C.B. Whittet	2003	Blue Area Floor 2	523.112
Apai, D.	Protoplanetary dust : astrophysical and cosmochemical perspectives	2010	Blue Area Floor 2	523.161
Schwab, F. R.	Synthesis imaging in radio astronomy : a collection of lectures from the third NRAO synthesis imaging summer school	1989	High Demand	523.164
Burke, Bernard F.	An introduction to radio astronomy	2010	Recommended Books	523.164
Kadomtsev, B. B.	On the pulsar	2010	Blue Area Floor 2	523.164
Rohlfs, K.	Tools of radio astronomy	2009	Blue Area Floor 2	523.164
Rohlfs, K.	Tools of radio astronomy	2009	High Demand	523.164
Rohlfs, K.	Tools of radio astronomy	2009	Recommended Books	523.164
Thompson, A. Richard	Interferometry and synthesis in radio astronomy	2001	Blue Area Floor 2	523.164
Thompson, A. Richard	Interferometry and synthesis in radio astronomy	2001	High Demand	523.164
Thompson, A. Richard	Interferometry and synthesis in radio astronomy	2001	Recommended Books	523.164
Dvorak, R.	Extrasolar planets : formation, detection and dynamics	2008	Blue Area Floor 2	523.4
Barnes, R.	Formation and evolution of exoplanets	2010	Blue Area Floor 2	523.4
Brandner, W.	Planet formation : theory, observations and experiments	2006	Blue Area Floor 2	523.4
Armitage, P. J.	Astrophysics of planet formation	2010	Blue Area Floor 2	523.4
Boss, Alan	The crowded universe : the search for living planets	2009	Blue Area Floor 2	523.4

Author	Title	Pub. Date	Sequence	Classmark
Johansen, Anders	Numerical models of the early stages of planet formation	2008	Blue Area Floor 2	523.4
Scharf, Caleb A.	Extrasolar planets and astrobiology	2009	Blue Area Floor 2	523.4
Mullan, Dermott J.	Physics of the sun : a first course	2010	Blue Area Floor 2	523.7
Soon, Willie	The Maunder Minimum and the variable sun-earth connection	2003	Blue Area Floor 2	523.74
Tandberg-Hanssen, E.	The physics of solar flares	1988	Blue Area Floor 2	523.75
Chaplin, William James	The music of the Sun : the story of helioseismology	2006	Blue Area Floor 2	523.76
Prialnik, Dina	An introduction to the theory of stellar structure and evolution	2009	Blue Area Floor 2	523.8
Prialnik, Dina	An introduction to the theory of stellar structure and evolution	2009	High Demand	523.8
Prialnik, Dina	An introduction to the theory of stellar structure and evolution	2009	Recommended Books	523.8
Fraser, G.	The new physics for the twenty-first century	2006	Blue Area Floor 2	530
Bordag, M.	Advances in the Casimir effect	2009	Blue Area Floor 2	530.1
Phua, K. K.	Statistical physics, high energy, condensed matter and mathematical physics	2008	Blue Area Floor 2	530.1
Rickles, D.	The Ashgate companion to contemporary philosophy of physics	2008	Blue Area Floor 2	530.1
Close, F. E.	Antimatter	2009	Blue Area Floor 2	530.1
Landau Memorial Conference	Advances in theoretical physics	2009	Blue Area Floor 2	530.1
Wilczek, Frank	The lightness of being : mass, ether, and the unification of forces	2008	Blue Area Floor 2	530.1
Cheng, Ta-Pei	Relativity, gravitation and cosmology	2010	Blue Area Floor 2	530.11
Choquet-Bruhat, Yvonne	General relativity and the Einstein equations	2009	Blue Area Floor 2	530.11
Cox, Brian	Why does $e=mc^2$: (and why should we care?)	2009	Blue Area Floor 2	530.11

Author	Title	Pub. Date	Sequence	Classmark
Forshaw, J. R. (Jeffrey Robert), 1968-	Dynamics and relativity	2009	Blue Area Floor 2	530.11
Griffiths, Jeremy Bransom	Exact space-times in Einstein's general relativity	2009	Blue Area Floor 2	530.11
Jaranowski, Piotr	Analysis of gravitational-wave data	2009	Blue Area Floor 2	530.1133
Klages, R.	Anomalous transport : foundations and applications	2008	Blue Area Floor 2	530.13
Yang, C. N.	Braid group, knot theory and statistical mechanics II	1994	Blue Area Floor 2	530.13
Wu, F. Y.	Exactly solved models : a journey in statistical mechanics	2009	Blue Area Floor 2	530.13
Biskup, M.	Methods of contemporary mathematical statistical physics	2009	Blue Area Floor 2	530.13
Ernst, G.	Time, chance and reduction : philosophical aspects of statistical mechanics	2010	Blue Area Floor 2	530.13
Bowley, Roger	Introductory statistical mechanics	1999	Blue Area Floor 2	530.13
Bowley, Roger	Introductory statistical mechanics	1999	High Demand	530.13
Bowley, Roger	Introductory statistical mechanics	1999	Recommended Books	530.13
<i>Ecole d'été de physique théorique (Les Houches, Haute-Savoie, France)</i>	Exact methods in low-dimensional statistical physics and quantum computing	2010	Blue Area Floor 2	530.13
<i>Ecole d'été de physique théorique (Les Houches, Haute-Savoie, France)</i>	Long-range interacting systems	2010	Blue Area Floor 2	530.13
<i>Fröhlich, Jürg</i>	A journey through statistical physics	2009	Blue Area Floor 2	530.13
Landau, David P.	A guide to Monte Carlo simulations in statistical physics	2009	Blue Area Floor 2	530.13
McCoy, Barry M.	Advanced statistical methods	2010	Blue Area Floor 2	530.13
<i>Müller-Kirsten, H. J. W</i>	Basics of statistical physics : a Bachelor degree introduction	2010	Blue Area Floor 2	530.13
Pottier, N.	Nonequilibrium statistical physics : linear irreversible processes	2010	Blue Area Floor 2	530.13

Author	Title	Pub. Date	Sequence	Classmark
Reichl, L. E.	A modern course in statistical physics	2009	Recommended Books	530.13
Soize, Christian	The Fokker-Planck equation for stochastic dynamical systems and its explicit steady state solutions	1994	Blue Area Floor 2	530.13
Tuckerman, Mark E.	Statistical mechanics : theory and molecular simulation	2010	Blue Area Floor 2	530.13
Mussardo, G.	Statistical field theory : an introduction to exactly solved models in statistical physics	2010	Blue Area Floor 2	530.14
Sardanashvili, G. A.	Generalized Hamiltonian formalism for field theory	1995	Blue Area Floor 2	530.14
<i>Łopuszański, Jan T</i>	An introduction to symmetry and supersymmetry in quantum field theory	1991	Blue Area Floor 2	530.143
Shifman, M.	Supersymmetric solitons	2009	Blue Area Floor 2	530.143
Valentini, A.	Quantum theory at the crossroads : reconsidering the 1927 Solvay Conference	2008	Blue Area Floor 2	530.145
Khanna, F. C.	Thermal quantum field theory : algebraic aspects and applications	2009	Blue Area Floor 2	530.145
Balcar, Ewald	Introduction to the graphical theory of angular momentum	2009	Blue Area Floor 2	530.145
Benatti, Fabio	Dynamics, information and complexity in quantum systems	2009	Blue Area Floor 2	530.145
Bernstein, Jeremy	Quantum leaps	2009	Blue Area Floor 2	530.145
Buot, Felix A.	Nonequilibrium quantum transport physics in nanosystems	2009	Blue Area Floor 2	530.145
Burkhardt, Charles E.	Foundations of quantum physics	2008	Blue Area Floor 2	530.145
Desai, B. R.	Quantum mechanics with basic field theory	2010	Blue Area Floor 2	530.145
Eisberg, Robert M.	Quantum physics of atoms, molecules, solids, nuclei, and particles	1985	Blue Area Floor 2	530.145
Eisberg, Robert M.	Quantum physics of atoms, molecules, solids, nuclei, and particles	1985	Recommended Books	530.145

Author	Title	Pub. Date	Sequence	Classmark
Feynman, Richard Phillips	Feynman's thesis : a new approach to quantum theory	2005	Blue Area Floor 2	530.145
Frampton, Paul H.	Gauge field theories	2008	Blue Area Floor 2	530.145
Frishman, Yitzhak	Non-perturbative field theory : from two dimensional conformal field theory to QCD in four dimensions	2009	Blue Area Floor 2	530.145
Gasiorowicz, Stephen	Quantum physics	2003	Recommended Books	530.145
Gilder, Louisa	The age of entanglement	2009	Blue Area Floor 2	530.145
Huang, Kerson	Quantum field theory : from operators to path integrals	2010	Blue Area Floor 2	530.145
Konishi, Kenichi	Quantum mechanics : a new introduction	2009	Blue Area Floor 2	530.145
Lam, K. S.	Non-relativistic quantum theory	2009	Blue Area Floor 2	530.145
Mallios, Anastasios	Modern differential geometry in gauge theories	2006	Blue Area Floor 2	530.145
Mandl, F.	Quantum field theory	2010	High Demand	530.145
Mandl, F.	Quantum field theory	2010	Recommended Books	530.145
Mandl, F.	Quantum mechanics	1992	Blue Area Floor 2	530.145
Mandl, F.	Quantum mechanics	1992	Recommended Books	530.145
Miller, D. A. B.	Quantum mechanics for scientists and engineers	2008	Blue Area Floor 2	530.145
Miller, D. A. B.	Quantum mechanics for scientists and engineers	2008	Recommended Books	530.145
Padmanabhan, T.	Quantum themes : the charms of the microworld	2009	Blue Area Floor 2	530.145
Parker, Leonard Emanuel	Quantum field theory in curved spacetime	2009	Blue Area Floor 2	530.145
Phillips, A. C.	Introduction to quantum mechanics	2003	Recommended Books	530.145
Rae, Alastair I. M.	Quantum mechanics	2008	Recommended Books	530.145

Author	Title	Pub. Date	Sequence	Classmark
Ryder, Lewis H.	Quantum field theory	1996	High Demand	530.145
Ryder, Lewis H.	Quantum field theory	1996	Recommended Books	530.145
Schwabl, Franz	Advanced quantum mechanics	2008	Blue Area Floor 2	530.145
Shankar, Ramamurti	Principles of quantum mechanics	1994	Recommended Books	530.145
Townsend, John S., 1946-	A modern approach to quantum mechanics	2000	Blue Area Floor 2	530.145
Zettili, Nouredine	Quantum mechanics : concepts & applications	2009	Blue Area Floor 2	530.145
Schleich, W.	Mathematical analysis of evolution, information, and complexity	2009	Blue Area Floor 2	530.15
Jimbo, M.	Yang-Baxter equation in integrable systems	1990	Blue Area Floor 2	530.15
Fujita, Shigeji	Mathematical physics	2010	Blue Area Floor 2	530.15
Hassani, Sadri	Mathematical Methods For Students of Physics and Related Fields	2009	Blue Area Floor 2	530.15
<i>International Conference "Foundations of Probability and Physics" (5th : 2008 : Växjö, Sweden)</i>	Foundations of probability and physics--5	2009	Blue Area Floor 2	530.15
Jones, H. F.	Groups, representations and physics	1998	Recommended Books	530.15
Ma, Chung-ch'i,	Yang-Baxter equation and quantum enveloping algebras	1993	Blue Area Floor 2	530.15
Shima, Hiroyuki	Higher mathematics for physics and engineering	2010	Blue Area Floor 2	530.15
Stone, Michael	Mathematics for physics	2009	Blue Area Floor 2	530.15
Cencini, Massimo	Chaos : from simple models to complex systems	2010	Blue Area Floor 2	530.172
Field, Mike	Symmetry in chaos : a search for pattern in mathematics	2009	Blue Area Floor 2	530.172

Author	Title	Pub. Date	Sequence	Classmark
Zaslavsky, George M.	The physics of chaos in Hamiltonian systems	2007	Blue Area Floor 2	530.172
Landau, Rubin H.	Computational physics : problem solving with computers	2007	Blue Area Floor 2	530.18
Cutnell, John D.	Physics	2009	Blue Area Floor 2	530.2
Feynman, Richard Phillips	Selected papers of Richard Feynman : with commentary	2000	Blue Area Floor 2	530.4
Kakalios, James	The physics of superheroes	2009	Blue Area Floor 2	530.7
Farach, Horacio A.	Physics qualifying examination : problems and solutions	2010	Blue Area Floor 2	530.76
Brandt, Siegmund	The harvest of a century : discoveries in modern physics in 100 episodes	2009	Blue Area Floor 2	530.9
Ohanian, Hans C.	Einstein's mistakes : the human failings of genius	2008	Blue Area Floor 2	530.9
<i>Hargittai, István</i>	The Martians of science : five physicists who changed the twentieth century	2006	Blue Area Floor 2	530.91
Wali, K.C.	Satyendra Nath Bose : his life and times ; selected works (with commentary)	2009	Blue Area Floor 2	530.92
Byrne, Peter	The many worlds of Hugh Everett III : multiple universes, mutual assured destruction, and the meltdown of a nuclear family	2010	Blue Area Floor 2	530.92
Cassidy, David C., 1945-	Beyond uncertainty : Heisenberg, quantum physics, and the bomb	2010	Blue Area Floor 2	530.92
Neffe, J.	Einstein : a biography	2009	Blue Area Floor 2	530.92
Agmon, David	Classical and relativistic mechanics	2009	Blue Area Floor 2	531
De Lange, O. L.	Solved problems in classical mechanics	2010	Blue Area Floor 2	531
Kibble, T. W. B.	Classical mechanics	2004	Blue Area Floor 2	531
Kibble, T. W. B.	Classical mechanics	2004	Recommended Books	531
Lieber, Lillian R.	The Einstein theory of relativity	2008	Blue Area Floor 2	531
King, George	Vibrations and waves	2009	Blue Area Floor 2	531.1133

Author	Title	Pub. Date	Sequence	Classmark
King, George	Vibrations and waves	2009	High Demand	531.1133
King, George	Vibrations and waves	2009	Recommended Books	531.1133
Cross, Michael C.	Pattern formation and dynamics in nonequilibrium systems	2009	Blue Area Floor 2	531.3
Zimba, Jason	Force and motion : an illustrated guide to Newton's law	2009	Blue Area Floor 2	531.3
Klein, Felix	The theory of the top	2008	Blue Area Floor 2	531.34
Audoly, Basile	Elasticity and geometry	2010	Blue Area Floor 2	531.38
Ignaczak, J.	Thermoelasticity with finite wave speeds	2010	Blue Area Floor 2	531.38
Girifalco, L. A.	The universal force	2008	Blue Area Floor 2	531.51
Coopersmith, Jennifer	Energy, the subtle concept : the discovery of Feynman's blocks from Leibniz to Einstein	2010	Blue Area Floor 2	531.61
Douglas, J. F.	Fluid mechanics	2005	High Demand	532
Meinel, R.	Relativistic figures of equilibrium	2008	Blue Area Floor 2	532.2
Wendt, J. F.	Computational fluid dynamics : an introduction	2009	Blue Area Floor 2	532.5
Acheson, D. J.	Elementary fluid dynamics	1990	Recommended Books	532.5
Tabeling, P.	Introduction to microfluidics	2005	Blue Area Floor 2	532.5
Herring, J. R.	Lecture notes on turbulence : lecture notes from the NCAR-GTP summer school, June 1987	1989	Blue Area Floor 2	532.51
Gennes, Pierre-Gilles de	The physics of liquid crystals	1993	Blue Area Floor 2	532.78
Brun, R.	Introduction to reactive gas dynamics	2009	Blue Area Floor 2	533.6
Arlotti, L.	Lecture notes on the mathematical theory of the Boltzmann equation	1995	Blue Area Floor 2	533.7
Parker, Barry R.	Good vibrations : the physics of music	2009	Blue Area Floor 2	534.3
Briggs, Andrew	Acoustic microscopy	2010	Blue Area Floor 2	534.3219
Lukš, Antonín	Quantum aspects of light propagation	2009	Blue Area Floor 2	535

Author	Title	Pub. Date	Sequence	Classmark
Montwill, Alex	Let there be light : the story of light from atoms to galaxies	2008	Blue Area Floor 2	535
Klimov, Andrei B.	A group-theoretical approach to quantum optics	2009	Blue Area Floor 2	535.14
Mandel, P.	Nonlinear optics : an analytical approach	2010	Blue Area Floor 2	535.2
Rand, S. C.	Lectures on light : nonlinear and quantum optics using the density matrix	2010	Blue Area Floor 2	535.2
Benton, Stephen A.	Holographic imaging	2008	Blue Area Floor 2	535.4
Benton, Stephen A.	Holographic imaging	2008	High Demand	535.4
Benton, Stephen A.	Holographic imaging	2008	Recommended Books	535.4
Hariharan, P.	Optical holography : principles, techniques and applications	1996	Blue Area Floor 2	535.4
Saxby, Graham	Practical holography	2004	Blue Area Floor 2	535.4
Saxby, Graham	Practical holography	2004	High Demand	535.4
Saxby, Graham	Practical holography	2004	Recommended Books	535.4
Auzinsh, Marcis	Optically polarized atoms	2010	Blue Area Floor 2	535.5
Milonni, Peter W.	Laser physics	2010	Blue Area Floor 2	535.59
Milonni, Peter W.	Laser physics	2010	High Demand	535.59
Milonni, Peter W.	Laser physics	2010	Recommended Books	535.59
Nagourney, Warren G.	Quantum electronics for atomic physics	2010	Blue Area Floor 2	535.59
Siegman, Anthony E.	Lasers	1986	Recommended Books	535.59
Svelto, Orazio	Principles of lasers	2010	Blue Area Floor 2	535.59
Svelto, Orazio	Principles of lasers	2010	Recommended Books	535.59
Von Allmen, Martin	Laser-beam interactions with materials	1995	Blue Area Floor 2	535.59
Chen, C. Julian	Introduction to scanning tunneling microscopy	2008	Blue Area Floor 2	535.822

Author	Title	Pub. Date	Sequence	Classmark
Eaton, Peter	Atomic force microscopy	2010	Blue Area Floor 2	535.822
Blundell, Stephen	Concepts in thermal physics	2010	Blue Area Floor 2	536
Kittel, Charles	Thermal physics	1980	High Demand	536
Kittel, Charles	Thermal physics	1980	Recommended Books	536
<i>Holovatch, Yuriy</i>	Order, disorder and criticality	2007	Blue Area Floor 2	536.401
Ivanov, Dmitry Yu	Critical behavior of non-ideal systems	2008	Blue Area Floor 2	536.401
Zinn-Justin, Jean	Phase transitions and renormalisation group	2007	Blue Area Floor 2	536.401
<i>Weidemüller, Matthias</i>	Cold atoms and molecules : a testground for fundamental many particle physics	2009	Blue Area Floor 2	536.48
Ben-Naim, Arieh	A farewell to entropy : statistical thermodynamics based on information : $S=\log W$	2008	Blue Area Floor 2	536.7
Lemons, Don S.	Mere thermodynamics	2009	Blue Area Floor 2	536.7
Deutscher, Guy	The entropy crisis	2008	Blue Area Floor 2	536.75
<i>Vvedensky, Dimitri D.</i>	Low-dimensional semiconductor structures : fundamentals and device applications	2001	Blue Area Floor 2	537.22
<i>Vvedensky, Dimitri D.</i>	Low-dimensional semiconductor structures : fundamentals and device applications	2001	High Demand	537.22
<i>Vvedensky, Dimitri D.</i>	Low-dimensional semiconductor structures : fundamentals and device applications	2001	Recommended Books	537.22
Blundell, Stephen	Superconductivity : a very short introduction	2009	Blue Area Floor 2	537.22
Brusov, Peter	Collective excitations in unconventional superconductors and superfluids	2010	Blue Area Floor 2	537.22
Ferry, David K.	Transport in nanostructures	2009	Blue Area Floor 2	537.22
Ganichev, Sergey	Intense terahertz excitation of semiconductors	2006	Blue Area Floor 2	537.22
Ginzburg, V. L.	On superconductivity and superfluidity	2008	Blue Area Floor 2	537.22

Author	Title	Pub. Date	Sequence	Classmark
Ihn, Thomas	Semiconductor nanostructures	2010	Blue Area Floor 2	537.22
Kopnin, N. B.	Theory of nonequilibrium superconductivity	2001	Blue Area Floor 2	537.22
Miura, N.	Physics of semiconductors in high magnetic fields	2008	Blue Area Floor 2	537.22
Orton, J. W.	The story of semiconductors	2004	Blue Area Floor 2	537.22
Ridley, B. K.	Electrons and phonons in semiconductor multilayers	2009	Blue Area Floor 2	537.22
Lim, Chjan C.	Vortex dynamics, statistical mechanics, and planetary atmospheres	2009	Blue Area Floor 2	537.527
Chen, Francis F.	Introduction to plasma physics and controlled fusion	1984	Recommended Books	537.537
Scottish Universities Summer School in Physics	Laser-plasma interactions	2009	Blue Area Floor 2	537.537
Suplee, Curt	The plasma universe	2009	Blue Area Floor 2	537.537
Schülke, Winfried	Electron dynamics by inelastic X-ray scattering	2007	Blue Area Floor 2	537.561
Coey, J. M. D.	Magnetism and magnetic materials	2010	Blue Area Floor 2	538
Gatteschi, D. (Dante)	Molecular nanomagnets	2006	Blue Area Floor 2	538
Suhl, Harry	Relaxation processes in micromagnetics	2007	Blue Area Floor 2	538.2
Grant, I. S.	Electromagnetism	1990	Recommended Books	538.3
Jackson, John David	Classical electrodynamics	1999	Recommended Books	538.3
Goedbloed, J. P.	Advanced magnetohydrodynamics	2010	Blue Area Floor 2	538.34
Goedbloed, J. P.	Principles of magnetohydrodynamics	2004	Recommended Books	538.34
De Podesta, Michael	Understanding the properties of matter	2002	Blue Area Floor 2	539
De Podesta, Michael	Understanding the properties of matter	2002	High Demand	539
De Podesta, Michael	Understanding the properties of matter	2002	Recommended Books	539

Author	Title	Pub. Date	Sequence	Classmark
Lilley, J. S.	Nuclear physics : principles and applications	2001	Blue Area Floor 2	539
Lilley, J. S.	Nuclear physics : principles and applications	2001	Recommended Books	539
Bertulani, Carlos A.	Nuclear physics in a nutshell	2007	Blue Area Floor 2	539.1
Bigi, I. I.	CP violation	2009	Blue Area Floor 2	539.1
Blin-Stoyle, R. J.	Nuclear and particle physics	1991	High Demand	539.1
Blin-Stoyle, R. J.	Nuclear and particle physics	1991	Teaching Collection	539.1
Bryan, Jeff C.	Introduction to nuclear science	2009	Blue Area Floor 2	539.1
Hodgson, P. E.	Introductory nuclear physics	1997	Recommended Books	539.1
Hofmann, Helmut	The physics of warm nuclei	2008	Blue Area Floor 2	539.1
Lieb, Elliott H.	The stability of matter in quantum mechanics	2010	Blue Area Floor 2	539.1
Martin, B. R.	Nuclear and particle physics	2009	Blue Area Floor 2	539.1
Martin, B. R.	Nuclear and particle physics	2009	High Demand	539.1
Martin, B. R.	Nuclear and particle physics	2009	Recommended Books	539.1
Chou, W.	Reviews of accelerator science and technology	2008	Blue Area Floor 2	539.107
Aitchison, I. J. R.	Gauge theories in particle physics	2003	Recommended Books	539.12
Cahn, Robert N.	The experimental foundations of particle physics	2009	Blue Area Floor 2	539.12
Greiner, Walter	Gauge theory of weak interactions	2009	Blue Area Floor 2	539.12
Griffiths, David J.	Introduction to elementary particles	2008	Blue Area Floor 2	539.12
Leibbrandt, George	Noncovariant gauges : quantization of Yang-Mills and Chern-Simons theory in axial-type gauges	1994	Blue Area Floor 2	539.12
Martin, B. R.	Particle physics	2008	Blue Area Floor 2	539.12

Author	Title	Pub. Date	Sequence	Classmark
Martin, B. R.	Particle physics	2008	Recommended Books	539.12
Perkins, Donald H.	Introduction to high energy physics	2000	Recommended Books	539.12
Ellis, R. K.	QCD and collider physics	1996	Blue Area Floor 2	539.126
Halzen, Francis	Quarks and leptons : an introductory course in modern particle physics	1984	Recommended Books	539.126
Ioffe, B. L., 1926-	Quantum chromodynamics	2010	Blue Area Floor 2	539.126
Allison, Wade	Radiation and reason : the impact of science on a culture of fear	2009	Blue Area Floor 2	539.16
Atzeni, Stefano	The physics of inertial fusion	2004	Blue Area Floor 2	539.17
Furrer, Albert	Neutron scattering in condensed matter physics	2009	Blue Area Floor 2	539.17
Willis, B. T. M.	Experimental neutron scattering	2009	Blue Area Floor 2	539.17
Steiner, U.	Polymers, liquids and colloids in electric fields	2009	Blue Area Floor 2	539.2
Agranovich, V. M.	Excitations in organic solids	2009	Blue Area Floor 2	539.2
Altland, Alexander	Condensed matter field theory	2010	Blue Area Floor 2	539.2
Bradley, C. J.	The mathematical theory of symmetry in solids	2010	Blue Area Floor 2	539.2
Fox, Mark	Optical properties of solids	2010	Blue Area Floor 2	539.2
Hofmann, Philip	Solid state physics : an introduction	2008	Blue Area Floor 2	539.2
Hook, J. R.	Solid state physics	1991	Blue Area Floor 2	539.2
Kléman, M.	Soft matter physics : an introduction	2003	Recommended Books	539.2
Martin, Richard M.	Electronic structure : basic theory and practical methods	2004	Blue Area Floor 2	539.2
Mihály, L.	Solid state physics : problems and solutions	2009	Blue Area Floor 2	539.2
Naumann, Robert J.	Introduction to the physics and chemistry of materials	2009	Blue Area Floor 2	539.2
Snoke, D. W.	Solid state physics : essential concepts	2009	Blue Area Floor 2	539.2

Author	Title	Pub. Date	Sequence	Classmark
Solymer, L.	Electrical properties of materials	2010	Blue Area Floor 2	539.2
Oswald, Patrick	Rheophysics : the deformation and flow of matter	2009	Blue Area Floor 2	539.501
Kontturi, K.	Ionic transport processes : in electrochemistry and membrane science	2008	Blue Area Floor 2	541.135
Kolasinski, Kurt W.	Surface science : foundations of catalysis and nanoscience	2008	Blue Area Floor 2	541.18
Gilli, Gastone	The nature of the hydrogen bond	2009	Blue Area Floor 2	541.5
McClain, William Martin	Symmetry theory in molecular physics with Mathematica	2008	Blue Area Floor 2	541.5
Barford, W.	Electronic and optical properties of conjugated polymers	2005	Blue Area Floor 2	541.7
Hamley, Ian W.	Introduction to soft matter	2007	High Demand	541.7
Hamley, Ian W.	Introduction to soft matter	2007	Recommended Books	541.7
Gray, Theodore W.	The elements : a visual exploration of every known atom	2009	Blue Area Floor 2	546
Gratzer, W. B.	Giant molecules : from nylon to nanotubes	2009	Blue Area Floor 2	547.79
Hammond, C.	The basics of crystallography and diffraction	2009	Blue Area Floor 2	548
Neder, Reinhard B.	Diffuse scattering and defect structure simulations	2008	Blue Area Floor 2	548.018
Stoneham, A. M.	Theory of defects in solids	2007	Blue Area Floor 2	548.4
Chayen, Naomi E.	Macromolecular crystallization and crystal perfection	2010	Blue Area Floor 2	548.5
Clegg, W.	Crystal structure analysis : principles and practice	2009	Blue Area Floor 2	548.73
Glusker, Jenny Pickworth	Crystal structure analysis : a primer	2010	Blue Area Floor 2	548.73
Welberry, T. R.	Diffuse x-ray scattering and models of disorder	2010	Blue Area Floor 2	548.73
<i>Haussühl, S.</i>	Physical properties of crystals : an introduction	2007	Blue Area Floor 2	548.8

Author	Title	Pub. Date	Sequence	Classmark
Kisi, Erich H.	Applications of neutron powder diffraction	2008	Blue Area Floor 2	548.8
Smaalen, Sander van	Incommensurate crystallography	2007	Blue Area Floor 2	548.8
<i>International Union of Crystallography</i>	Crystal structure refinement : a crystallographer's guide to SHELXL	2006	Blue Area Floor 2	548.81
Ferraris, Giovanni	Crystallography of modular materials	2008	Blue Area Floor 2	548.81
Janssen, Ted	Aperiodic crystals : from modulated phases to quasicrystals	2007	Blue Area Floor 2	548.81
Prather, D. W.	Photonic crystals : theory, applications, and fabrication	2009	Blue Area Floor 2	548.9
Vardavas, Ilias M.	Radiation and climate	2007	Blue Area Floor 2	551.5
North, Gerald R.	Atmospheric thermodynamics	2009	Blue Area Floor 2	551.501
Wiuf, C.	Statistical and evolutionary analysis of biological networks	2010	Blue Area Floor 2	570.151
Berg, Howard C.	Random walks in biology	1993	Recommended Books	570.15195
Alon, Uri	An introduction to systems biology	2007	Recommended Books	570.285
Ball, Philip	Nature's patterns : a tapestry in three parts	2009	Blue Area Floor 2	571.3
Ball, Philip	Nature's patterns : a tapestry in three parts	2009	Blue Area Floor 2	571.3
Newman, Jay	Physics of the life sciences	2008	Blue Area Floor 2	571.4
Waigh, Tom	Applied biophysics : a molecular approach for physical scientists	2007	Blue Area Floor 2	571.4
Waigh, Tom	Applied biophysics : a molecular approach for physical scientists	2007	Recommended Books	571.4
Coggle, J. E.	Biological effects of radiation	1983	Blue Area Floor 2	571.45
Phillips, Rob	Physical biology of the cell	2009	Recommended Books	571.6
Aguda, B.	Models of cellular regulation	2008	Blue Area Floor 2	571.84

Author	Title	Pub. Date	Sequence	Classmark
Skelly, J.	Macromolecular crystallography : conventional and high-throughput methods	2007	Blue Area Floor 2	572.633
Zhang, Aidong	Protein interaction networks : computational analysis	2009	Blue Area Floor 2	572.640285
Strick, T.	RNA polymerases as molecular motors	2009	Blue Area Floor 2	572.8845
Koch, Christof	Biophysics of computation	1999	Blue Area Floor 2	573.85
Koch, Christof	Biophysics of computation	1999	Recommended Books	573.85
Keller, L.	Levels of selection in evolution	1999	Blue Area Floor 2	576.82
Frank, Steven A.	Foundations of social evolution	1998	Blue Area Floor 2	576.82
Cantrell, S.	Spatial ecology	2009	Blue Area Floor 2	577.0151
Lovelock, James	The vanishing face of gaia : a final warning	2009	Blue Area Floor 2	577.271
Stone, L.	Complex population dynamics : nonlinear modeling in ecology, epidemiology and genetics	2007	Blue Area Floor 2	577.88015118
Takeuchi, Y.	Global dynamical properties of Lotka-Volterra systems	1996	Blue Area Floor 2	577.88015118
Angilletta, Michael J.	Thermal adaptation : a theoretical and empirical synthesis	2009	Blue Area Floor 2	591.128
Hobbie, Russell K.	Intermediate physics for medicine and biology	2007	Blue Area Floor 2	610.153
Hobbie, Russell K.	Intermediate physics for medicine and biology	2007	Recommended Books	610.153
Waynant, R. W.	Lasers in medicine	2002	Recommended Books	610.28
Elston, Robert C.	Basic biostatistics for geneticists and epidemiologists	2008	Blue Area Floor 2	610.727
Andersson, H.	Stochastic epidemic models and their statistical analysis	2000	Blue Area Floor 2	614.4015118
Morrison, S. J.	Statistics for engineers : an introduction	2009	Blue Area Floor 2	620.00727
Zaichik, Leonid	Particles in turbulent flows	2008	Blue Area Floor 2	620.1064

Author	Title	Pub. Date	Sequence	Classmark
Ghoniem, N. M.	Instabilities and self-organization in materials	2008	Blue Area Floor 2	620.11
Bhattacharya, Kaushik	Microstructure of martensite	2003	Blue Area Floor 2	620.11
Wadhawan, Vinod K.	Smart structures : blurring the distinction between the living and the nonliving	2007	Blue Area Floor 2	620.11
Banhart, J.	Advanced tomographic methods in materials research and engineering	2008	Blue Area Floor 2	620.11272
Solymar, L.	Waves in metamaterials	2009	Blue Area Floor 2	620.11897
Aranson, Igor	Granular patterns	2009	Blue Area Floor 2	620.43
Fu, Y. Y.	Oxford handbook of nanoscience and technology	2010	Blue Area Floor 2	620.5
Lindsay, Stuart	Introduction to nanoscience	2010	Blue Area Floor 2	620.5
Lindsay, Stuart	Introduction to nanoscience	2010	High Demand	620.5
Maekawa, S.	Concepts in spin electronics	2006	Blue Area Floor 2	621.3
Bandyopadhyay, S.	Introduction to spintronics	2008	Blue Area Floor 2	621.3
<i>Würfel, Peter</i>	Physics of solar cells	2009	Blue Area Floor 2	621.31244
Brady, David J.	Optical imaging and spectroscopy	2009	Blue Area Floor 2	621.36
Saleh, Bahaa E. A.	Fundamentals of photonics	2007	Recommended Books	621.36
Davis, Christopher C.	Lasers and electro-optics	1996	Recommended Books	621.366
Erneux, Thomas	Laser dynamics	2010	Blue Area Floor 2	621.366
Hitz, C. Breck	Introduction to laser technology	2001	Blue Area Floor 2	621.366
Hitz, C. Breck	Introduction to laser technology	2001	High Demand	621.366
Duffner, Robert W.	The adaptive optics revolution : a history	2009	Blue Area Floor 2	621.367
Chuang, Shun Lien	Physics of photonic devices	2009	Blue Area Floor 2	621.381045
Hobbs, Philip C. D.	Building electro-optical systems : making it all work	2009	Blue Area Floor 2	621.381045
Hobbs, Philip C. D.	Building electro-optical systems : making it all work	2009	High Demand	621.381045

Author	Title	Pub. Date	Sequence	Classmark
Kasap, S. O.	Cambridge illustrated handbook of optoelectronics and photonics	2009	Blue Area Floor 2	621.381045
Rosencher, Emmanuel	Optoelectronics	2002	High Demand	621.381045
Gil, B.	Low-dimensional nitride semiconductors	2002	Blue Area Floor 2	621.38152
Benson, O.	Semiconductor quantum bits	2009	Blue Area Floor 2	621.38152
Coleman, Charles	Modern physics for semiconductor science	2008	Blue Area Floor 2	621.38152
Harrison, P.	Quantum wells, wires and dots	2009	Blue Area Floor 2	621.38152
Singh, Jasprit	Semiconductor optoelectronics : physics and technology	1995	High Demand	621.38152
International Conference on Noise and Fluctuations	Noise and fluctuations : 20th International Conference on Noise and Fluctuations	2009	Blue Area Floor 2	621.38224
Yariv, Amnon	Photonics : optical electronics in modern communication	2007	Blue Area Floor 2	621.389
Yariv, Amnon	Photonics : optical electronics in modern communication	2007	Recommended Books	621.389
El-Wakil, M. M.	Nuclear power engineering	1962	Main Level	621.48
Lamarsh, John R.	Introduction to nuclear engineering	2001	High Demand	621.48
Nuttall, William J.	Nuclear renaissance : technologies and policies for the future of nuclear power	2005	Blue Area Floor 2	621.48
Todreas, Neil E.	Nuclear systems II : elements of thermal hydraulic design	1990	High Demand	621.483
Todreas, Neil E.	Nuclear systems II : elements of thermal hydraulic design	1990	Main Level	621.483
Todreas, Neil E.	Nuclear systems I : thermal hydraulic functions	1990	High Demand	621.483
Todreas, Neil E.	Nuclear systems I : thermal hydraulic functions	1990	Main Level	621.483
Winterton, R. H. S.	Thermal design of nuclear reactors	1981	Main Level	621.483
Knief, Ronald Allen	Nuclear criticality safety : theory and practice	1985	Main Level	621.4835

Author	Title	Pub. Date	Sequence	Classmark
Seaver, D. A.	Evaluation of the use of expert judgement to estimate human error probabilities	1984	Main Level	621.4835
Fullwood, R. R.	Probabilistic safety assessment in the chemical and nuclear industries	2000	Main Level	621.4835
Fundamenski, Wojciech	Power exhaust in fusion plasmas	2010	Blue Area Floor 2	621.484
Mo"rzer Bruyns, W. F. J.	Sextants at Greenwich	2009	Blue Area Floor 2	623.863
Kimball, John	Physics of sailing	2010	Blue Area Floor 2	623.8813
Alexander, David E.	Why don't jumbo jets flap their wings? : flying animals, flying machines, and how they are different	2009	Blue Area Floor 2	629.13
Saaty, Thomas L.	Decision making for leaders : the analytical hierarchy	1982	Upper Level	658.403
Collier, John G.	Convective boiling and condensation	1996	Main Level	660.02
Reich, S.	Carbon nanotubes : basic concepts and physical properties	2004	Blue Area Floor 2	668.8
Loadman, John	Tears of the tree : the story of rubber : a modern marvel	2005	Blue Area Floor 2	678
Betts, Jonathan	Time restored : the Harrison timekeepers and R.T. Gould	2006	Blue Area Floor 2	681.11
McKay, Chris	Big Ben : the great clock and the bells at the Palace of Westminster	2010	Blue Area Floor 2	681.11
Blanchard, Philippe	Mathematical analysis of urban spatial networks	2009	Blue Area Floor 4	711.001
Pulselli, R.	City out of chaos : urban self-organization and sustainability	2009	Blue Area Floor 4	711.4
Sillek, B.	Cosmic voyage [videorecording (DVD)]	2002	Video Coll.	VCR697

Appendix 3: Current journal subscriptions

Title	Electronic access	Print holdings
ACS Nano	2007-	
Acta Crystallographica Section A: Foundations of Crystallography	1968-	
Acta Crystallographica Section B: Structural Science	1968-	
Acta Crystallographica Section C: Crystal Structure Communications	1983-	
Acta Crystallographica Section E: Structure Reports Online	2001-	
Acta Physica Polonica A	2001-	1970-1981 (imperfect)
Acta Physica Polonica B	1970-	1970-1981 (imperfect)
Acta Physiologica	1940-	
Acoustical Physics	2001-	
Acta Mechanica	1965-	
Acta Mechanica Sinica	1997-	
Acta Physica Slovaca	1970-	
Advanced Functional Materials	1992-	
Advanced Materials	1989-	
Advances in Atomic, Molecular, and Optical Physics		1989-
Advances in High Energy Physics	2007-	
Advances in Nonlinear Optics	2008-	
Advances in Optics and Photonics	2009-	
Advances in Physics	1952-	1952-1993
Advances in Solid State Physics	1998-	
Advances in Space Research	1981-	
African Journal of Mathematical Physics	2004-	

Title	Electronic access	Print holdings
AIP Advances	2011-	
AIP Conference Proceedings	1970-	
American Journal of Physics	1933-	
American Journal of Physiology-Heart and Circulatory Physiology	1898-	
American Naturalist	1867-	
Analysis and Mathematical Physics	2011-	
Annalen der Physik	1799-	1877-1928
Annales Henri Poincare	1964-	
Annals of Nuclear Energy	1974-	
Annals of the ICRP	1977-	
Annals of the New York Academy of Sciences	1897-	
Annals of Physics	1957-	
Annual Reports on the Progress of Chemistry, Section C: Physical Chemistry	1979-	1979-2005
Annual Review of Astronomy and Astrophysics	1963-	
Annual Review of Biophysics	1972-	
Annual Review of Biophysics and Biomolecular Structure	1985-	
Annual Review of Fluid Mechanics	1969-	
Annual Review of Nuclear and Particle Science	1952-	
Applied Magnetic Resonance	1997-	
Applied Optics	1977-	
Applied Physics A: Materials Science and Processing	1973-	
Applied Physics B: Lasers and Optics	1981-	
Applied Physics Express	2008-	
Applied Physics Letters	1962-	
Applied Radiation and Isotopes	1986-	

Title	Electronic access	Print holdings
Applied Solar Energy	2007-	
Applied Spectroscopy	1946-	1984-2005 (imperfect)
Archive of Applied Mechanics	1929-	
Archives of General Psychiatry	1998-	1959-
Archives of Biochemistry and Biophysics	1951-	
Archives of Physics Research	2010-	
Astronomische Nachrichten	1823-	
Astronomy and Astrophysics	1969-	
Astronomy and Geophysics	2000-	
Astronomy Education Review	2001-	
Astronomy Reports	2000-	1993-1999
Astroparticle Physics	1992-	
Astrophysical Bulletin	2007-	
Astrophysical Letters and Communications		1987-1995; 1999-
Astrophysics	1965-	
Astrophysics and Space Science	1968-	
Atmospheric Chemistry and Physics	2001-	
Atmospheric Chemistry and Physics Discussions	2001-	
Atomic Data and Nuclear Data Tables	1969-	
Atomic Energy	1956-	
Australasian Physical & Engineering Sciences in Medicine	2001-	
Australian Journal of Physics	1948-1996	1953-
Basic Research in Cardiology	1937-	
Biochemical and Biophysical Research Communications	1959-	

Title	Electronic access	Print holdings
Biomacromolecules	2000-	
Biomaterials	1980-	
Biomedical Engineering	1967-	
Biomedical Materials	1992-	
Biomedical Microdevices	1998-	
Biomedical Optics Express	2010-	
Biophysical Chemistry	1973-	
Biophysical Journal	1960-	1960-1997
Biophysical Reviews	2009-	
Biophysics	2005-	1961-1989
Biotechnology Letters	1979-	
BMC Medical Physics	2001-	
BMC Pregnancy and Childbirth	2001-	
Brazilian Journal of Physics	1996-	
Briefings in Bioinformatics	2000-	
Bulgarian Journal of Physics	2001-	
Bulletin of Mathematical Biology	1973-	
Bulletin of the American Meteorological Society	1970-	1971-1994
Bulletin of the Lebedev Physics Institute	2007-	
Canadian Journal of Physics		1951-
Cancer Nanotechnology	2010-	
Carbon	1963-	
Cardiovascular Research	1997-	1967-1994
Catalysis Letters	1988-	
Catalysis Today	1987-	

Title	Electronic access	Print holdings
Celestial Mechanics and Dynamical Astronomy	1969-	
Cell Biochemistry and Biophysics	1997-	
Central European Journal of Physics	2003-	
Chaos	1991-	
Chaos, Solitons and Fractals	1991-	
Chemical Physics	1973-	
Chemical Physics Letters	1967-	
Chemical Reviews	1996-	
Chemical Vapor Deposition	1995-	
Chemistry and Physics of Lipids	1966-	
ChemPhysChem	2000-	
Chinese Journal of Physics	1963-	
Chinese Optics Letters	2003-	
Chinese Physics B	2000-	
Chinese Physics Letters	1984-	
Chinese Science Bulletin	1997-	
Circulation	1950-	
Circulation Research	1953-	
Classical and Quantum Gravity	1984-	
Clinical Oncology	1989-	
Communications in Mathematical Physics	1965-	
Comptes Rendus Physique	2000-	
Computer Physics Communications	1969-	
Computers & Fluids	1973-	
Computers in Biology and Medicine	1970-	

Title	Electronic access	Print holdings
Computational Complexity	1991-	
Computational Economics	1988-	
Concepts in Magnetic Resonance, Part A	1989-	
Concurrency and Computation: Practice and Experience	1989-	
Condensed Matter Physics	1993-	
Contemporary Physics	1959-	
Continuum Mechanics and Thermodynamics	1989-	
Contributions to Plasma Physics	1960-	
Cosmic Research	2000-	
Critical Reviews in Solid State and Materials Science	1970-	
Cryogenics	1960-	
Crystal Research and Technology	1966-	
Current Applied Physics	2001-	
Current Opinion in Colloid and Interface Science	1996-	
Dental Materials	1985-	
Doklady Biochemistry and Biophysics	2000-	
Ecological Complexity	2004-	
Ecological Modelling	1975-	
Ecology Letters	1998-	
Electronic Journal of Theoretical Physics	2005-	
Electronics Letters	1965-	
Energy Conversion and Management	1968-	
European Neuropsychopharmacology	1990-	
European Biophysics Journal	1974-	
European Journal of Neuroscience	1989-	

Title	Electronic access	Print holdings
European Journal of Pharmacology	1967-	
European Journal of Physics	1980-	
Europhysics Letters	1971-	1986-1995
Evolution	1947-	
Experimental Astronomy	1989-	
Experimental Mechanics	1997-	1961-1982
Experimental Thermal and Fluid Science	1988-	
Experiments in Fluids	1983-	
Expert Opinion on Drug Delivery	2004-	
Faraday Discussions	1947-	
Ferroelectric Letters Section	1983-	
Ferroelectrics	1970-	
Few-Body Systems	1986-	
Fiber and Integrated Optics	1977-	
Flow, Turbulence and Combustion	1949-	
Fluid Dynamics	1966-	
Fluid Dynamics Research	1986-	
Fortschritte der Physik	1953-	
Foundations of Physics	1970-	
Frontiers in Bioscience	1996-	
Frontiers of Optoelectronics in China	2008-	
Gastroenterology	1995-	1943-1994
General Relativity and Gravitation	1970-	
Geophysical and Astrophysical Fluid Dynamics	1970-	
Geophysical Journal International	1997-	

Title	Electronic access	Print holdings
Geophysical Research Letters	1974-	1974-1993
Georgian Electronic Scientific Journals: Physics	2003-	
Glass Physics and Chemistry	2000-	
Granular Matter	1998-	
Gravitation and Cosmology	2008-	
Green Chemistry	1999-	
Health Physics	1999-	
High Energy Density Physics	2005-	
High Pressure Research	1988-	
High Temperature	2000-	
Human Brain Mapping	1993-	
Hyperfine Interactions	1975-	
IEEE Journal of Quantum Electronics	1965-	
IEEE Microwave and Wireless Components Letters	1991-	2001
IEEE Photonics Technology Letters	1989-	
IEEE Spectrum	1965-	1964-1991
IEEE Transactions on Magnetics	1965-	
IEEE Transactions on Nanotechnology	2002-	
IEEE Transactions on Nuclear Science	1955-	1956-1987
Il Nuovo Cimento B	1997-	1965-2006
Il Nuovo Cimento C	1997-	
Infrared Physics and Technology	1961-	
Instruments and Experimental Techniques	2000-	1958-1990
Integrated Ferroelectrics	1992-	
International Journal of Biological Macromolecules	1979-	

Title	Electronic access	Print holdings
International Journal of Computational Fluid Dynamics	1993-	
International Journal of Electronics	1955-	
International Journal of Mass Spectrometry	1983-	
International Journal of Modern Physics A	2001-	1987-2007
International Journal of Modern Physics B	2001-	1987-2007
International Journal of Multiphase Flow	1973-	
International Journal of Photoenergy	1999-	
International Journal of Quantum Chemistry	1967-	
International Journal of Radiation Oncology Biology Physics	1975-	
International Journal of Theoretical Physics	1968-	
International Journal of Thermophysics	1980-	
International Newsletter on Physics Education	1996-	
Inverse Problems	1985-	
IOP Conference Series: Earth and Environmental Science	2008-	
IOP Conference Series: Materials Science and Engineering	2009-	
Japanese Journal of Applied Physics	1962-	
JETP Letters	1997-	1965-2007
Journal of Alloys and Compounds	1959-	
Journal of Animal Ecology	1932-	
Journal of Applied Clinical Medical Physics	2000-	
Journal of Applied Crystallography	1968-	
Journal of Applied Mechanics and Technical Physics	1965-	
Journal of Applied Physics	1931-	
Journal of Applied Spectroscopy	1965-	
Journal of Astrophysics and Astronomy	1997-	1980-2002 (imperfect)

Title	Electronic access	Print holdings
Journal of Atmospheric and Solar-Terrestrial Physics	1950-	
Journal of Biological Physics	1973-	
Journal of Biomedical Optics	1996-	
Journal of Biophotonics	2008-	
Journal of Biophysics and Structural Biology	2009-	
Journal of Building Physics	1977-	
Journal of Cardiovascular Electrophysiology	1983-	
Journal of Catalysis	1962-	
Journal of Chemical Physics	1933-	
Journal of Colloid and Interface Science	1946-	
Journal of Computational Physics	1966-	
Journal of Contemporary Physics	2007-	
Journal of Controlled Release	1984-	
Journal of Cosmology and Astroparticle Physics	2003-	
Journal of Crystal Growth	1967-	
Journal of Dentistry	1972-	
Journal of Display Technology	2005-	
Journal of Economic Behavior and Organization	1980-	
Journal of Electrocardiology	1968-	
Journal of Electromagnetic Waves and Applications	1987-	
Journal of Electron Spectroscopy and Related Phenomena	1972-	
Journal of Electronic Imaging	1992-	
Journal of Engineering Physics and Thermophysics	1965-	
Journal of Engineering Thermophysics	2007-	
Journal of Fluid Mechanics	1956-	

Title	Electronic access	Print holdings
Journal of Fusion Energy	1981-	
Journal of Geometry and Physics	1984-	
Journal of Geophysical Research	1896-	1949-2003
Journal of Geophysical Research - Space Physics	1978-	
Journal of High Energy Physics	1997-	
Journal of Infrared, Millimeter, and Terahertz Waves	1997-	
Journal of Instrumentation	2006-	
Journal of Investigative Dermatology	1938-	1965-2005
Journal of Lightwave Technology	1983-	
Journal of Low Temperature Physics	1969-	
Journal of Macromolecular Science, Part B: Physics	1967-	
Journal of Magnetic Resonance	1969-	
Journal of Magnetism and Magnetic Materials	1975-	
Journal of Materials Chemistry	1991-	
Journal of Materials Science-Materials in Electronics	1990-	
Journal of Mathematical Fluid Mechanics	1999-	
Journal of Mathematical Physics	1960-	
Journal of Micro/Nanolithography, MEMS, and MOEMS	2002-	
Journal of Micromechanics and Microengineering	1991-	
Journal of Modern Optics	1954-	
Journal of Molecular and Cellular Cardiology	1970-	
Journal of Molecular Liquids	1977-	
Journal of Molecular Recognition	1988-	
Journal of Molecular Spectroscopy	1957-	
Journal of Nanoparticle Research	1999-	

Title	Electronic access	Print holdings
Journal of Nanophotonics	2007-	
Journal of Neural Engineering	2004-	
Journal of Non-Crystalline Solids	1968-	1968-1985
Journal of Non-Equilibrium Thermodynamics	1976-	1980-2004
Journal of Non-Newtonian Fluid Mechanics	1976-	
Journal of Nonlinear Science	1991-	
Journal of Nuclear Materials	1959-	
Journal of Optical Communications and Networking	2009-	
Journal of Optical Technology	1999-	
Journal of Optics	1973-	
Journal of Photochemistry and Photobiology A: Chemistry	1987-	
Journal of Photonics for Energy	2011-	
Journal of Physical and Chemical Reference Data	1972-	1972-2005
Journal of Physical Chemistry A	1997-	
Journal of Physical Chemistry B	1997-	
Journal of Physical Chemistry C	2007-	
Journal of Physical Chemistry Letters	2010 -	
Journal of Physics A: Mathematical and Theoretical	1968-	
Journal of Physics and Chemistry of Solids	1956-	
Journal of Physics B: Atomic, Molecular and Optical Physics	1968-	
Journal of Physics D: Applied Physics	1950-	
Journal of Physics G: Nuclear and Particle Physics	1975-	
Journal of Physics: Condensed Matter	1989-	
Journal of Physics: Conference Series	2004-	
Journal of Plasma Physics	1967-	

Title	Electronic access	Print holdings
Journal of Polymer Science Part B: Polymer Physics	1946-	
Journal of Psychiatric Research	1961-	
Journal of Quantitative Spectroscopy & Radiative Transfer	1961-	
Journal of Radiological Protection	1981-	
Journal of Rheology	1957-	
Journal of Russian Laser Research	1980-	
Journal of Solid State Chemistry	1969-	
Journal of Sound and Vibration	1964-	
Journal of Statistical Mechanics: Theory and Experiment	2004-	
Journal of Statistical Physics	1969-	
Journal of Superconductivity and Novel Magnetism	1988-	
Journal of Surface Investigation. X-ray, Synchrotron and Neutron Techniques	2007-	
Journal of Synchrotron Radiation	1994-	
Journal of the American Chemical Society	1879-	
Journal of the American Society for Mass Spectrometry	1990-	
Journal of the Atmospheric Sciences	1944-	
Journal of the Korean Physical Society		1997-
Journal of the Mechanics and Physics of Solids	1952-	
Journal of the Optical Society of America A	1984-	
Journal of the Optical Society of America B	1984-	
Journal of the Optical Society of Korea	1997-	
Journal of the Physical Society of Japan	1946-	1958-1969
Journal of the Royal Society Interface	2004-	
Journal of Theoretical Biology	1961-	
Journal of Thermal Science	1997-	

Title	Electronic access	Print holdings
Journal of Turbulence	2000-	
Journal of Vacuum Science and Technology A	1983-	
Journal of Vacuum Science and Technology B	2006-	
Kinematics and Physics of Celestial Bodies	2006-	
La Rivista del Nuovo Cimento	1997-	1969-1999
Langmuir	1985-	
Laser Chemistry	1982-	
Laser Physics	2006-	
Laser Physics Letters	2004-	
Laser Technik Journal	2004-	
Lasers in Medical Science	1986-	
Lasers in Surgery and Medicine	1980-	
Latvian Journal of Physics and Technical Sciences	2008-	
Lecture Notes in Physics	1969-	
Letters in Mathematical Physics	1975-	
Liquid Crystals	1986-	
Liquid Crystals Today	1991-	
Living Reviews in Relativity	1998-	
Living Reviews in Solar Physics	2004-	
Low Temperature Physics	1997-	
Macromolecular Chemistry and Physics	1947-	
Macromolecules	1968-	
Magnetic Resonance in Medicine	1984-	1987-2004
Magnetic Resonance Materials in Physics, Biology and Medicine	1993-	
Materials Chemistry and Physics	1976-	

Title	Electronic access	Print holdings
Materials Science and Engineering B: Solid-State Materials for Advanced Technology	1988-	
Mathematical Biosciences	1967-	
Mathematical Physics Electronic Journal	1995-	
Mathematical Physics, Analysis and Geometry	1998-	
Measurement Science and Technology	1990-	
Meccanica	1966-	
Mechanics of Solids	2007-	
Medical Engineering & Physics	1979-	
Medical Laser Application	2001-	
Memoirs on Differential Equations and Mathematical Physics	1994-	
Meteorology and Atmospheric Physics	1948-	
Metrologia	1965-	
Micro and Nano Letters	2006-	
Microelectronic Engineering	1983-	
Microfluidics and Nanofluidics	2004-	
Microgravity Science and Technology	2001-	
Modelling and Simulation in Materials Science and Engineering	1992-	
Modern Physics Letters A	2001-	1987-2000
Modern Physics Letters B	2002-	1987-2001
Molecular and Cellular Biochemistry	1973-	
Molecular Crystals and Liquid Crystals	1966-	
Molecular Physics	1958-	
Monthly Notices of the Royal Astronomical Society	1827-	
Monthly Notices of the Royal Astronomical Society: Letters	2005-	
Moscow University Physics Bulletin	2007-	

Title	Electronic access	Print holdings
Nano Communication Networks	2010-	
Nano Letters	2001-	
Nano-Micro Letters	2009-	
Nanoscale	2009-	
Nanoscale Research Letters	2006-	
Nano Research	2008-	
Nano Reviews	2010-	
Nano Today	2006-	
Nanotechnologies in Russia	2008-	
Nanotechnology	1990 -	
Nature	1950-	1869-2008
Nature Materials	2002-	
Nature Medicine	1995-	
Nature Nanotechnology	2006-	
Nature Photonics	2007-	
Nature Physics	2005-	
Nature Structural and Molecular Biology	1994-	
Neurobiology of Aging	1980-	
NeuroImage	1992-	
Neuropsychopharmacology	1994-	
NeuroReport	1990-	
Neuroscience	1976-	
Neutron News	1990-	
New Astronomy	1996-	
New Astronomy Reviews	1955-	

Title	Electronic access	Print holdings
New Directions: In the Teaching of Physical Sciences	2003-	
New Journal of Physics	1998-	
New Scientist	1989-	1956-
Nonlinear Biomedical Physics	2007-	
Nonlinearity	1998-	
Nuclear Data Sheets	1965-	
Nuclear Fusion	1960-	
Nuclear Instruments and Methods in Physics Research: A	1995-	
Nuclear Instruments and Methods in Physics Research: B	1984-	
Nuclear Physics A	1956-	
Nuclear Physics B	1967-	
Nuclear Physics B - Proceedings Supplements	1987-	
Nuclear Physics News	1990-	
Observatory		1878-
OIKOS	1949-	
Optical and Quantum Electronics	1969-	
Optical Engineering	1990-	1977-1996
Optical Fiber Technology	1994-	
Optical Materials	1992-	
Optical Review	1994-	
Optics and Laser Technology	1968-	
Optics and Lasers in Engineering	1980-	
Optics and Photonics News	1990-	
Optics and Spectroscopy	2000-	1959-2004
Optics Communications	1969-	

Title	Electronic access	Print holdings
Optics Express	1997-	
Optics Letters	1977-	
Opto-Electronics Review	2006-	
Optoelectronics Letters	2005-	
Optoelectronics, Instrumentation and Data Processing	2007-	
Papers in Physics	2009-	
Phase Transitions	1979-	
Philosophical Magazine	1956-	1798-1959
Philosophical Magazine Letters	1987-	
Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences	1887-	
Philosophical Transactions of the Royal Society B: Biological Sciences	1887-	
Photonic Network Communications	1999-	
Photonic Sensors	2011-	
Photonics and Nanostructures	2003-	
Physica A	1934-	
Physica B: Condensed Matter (became b+c from 1975-1988)(prev just physica)	1988-	
Physica C: Superconductivity (became b+c from 1975-1988)(prev just physica)	1988-	
Physica D: Nonlinear Phenomena	1980-	
Physica E: Low-Dimensional Systems and Nanostructures	1997-	
Physica Scripta	1970-	
Physica Status Solidi A: Applications and Materials Science	1970-	
Physica Status Solidi B: Basic Solid State Physics	1961-	
Physica Status Solidi C: Current Topics in Solid State Physics	2002/3-	

Title	Electronic access	Print holdings
Physica Status Solidi RRL: Rapid Research Letters	2007-	
Physical Biology	2004-	
Physical Chemistry Chemical Physics	1999-	
Physical Review	1893-1969	
Physical Review A: Atomic, Molecular and Optical Physics	1970-	
Physical Review B: Condensed Matter and Materials Physics	1970-	
Physical Review C: Nuclear Physics	1970-	
Physical Review D: Particles, Fields, Gravitation and Cosmology	1970-	
Physical Review E: Statistical, Nonlinear, and Soft Matter Physics	1993-	
Physical Review Focus	1998-	
Physical Review Letters	1958-	
Physical Review Special Topics - Accelerators and Beams	1998-	
Physical Review Special Topics - Physics Education Research	2005-	
Physics	2008-	
Physics - Uspekhi	1958-	
Physics and Chemistry of Liquids	1968-	
Physics and Chemistry of Minerals	1977-	
Physics and Chemistry of the Earth, Parts A/B/C	1956-	
Physics and Philosophy	2006-	
Physics Education	1966-	
Physics in Medicine and Biology	1956-	
Physics in Perspective	1999-	
Physics Letters A	1962-	
Physics Letters B	1962-	
Physics of Atomic Nuclei	2000-	

Title	Electronic access	Print holdings
Physics of Fluids	1958-	
Physics of Life Reviews	2004-	
Physics and Chemistry of Minerals	1977-	
The Physics of Metals and Metallography	2006-	1957-1977
Physics of Particles and Nuclei	2006-	
Physics of Particles and Nuclei Letters	2006-	
Physics of Plasmas	1989-	
Physics of the Earth and Planetary Interiors	1967-	
Physics of the Solid State	1997-	1960-1996
Physics of Wave Phenomena	2007-	
Physics Reports	1971-	
Physics Research International	2010-	
Physics Today	1948-	1957- (imperfect)
Physics World		1989-
Physiological Measurement	1980-	
Planetary and Space Science	1959-	
Plasma Chemistry and Plasma Processing	1981-	
Plasma Physics and Controlled Fusion	1960-	
Plasma Physics Reports	2000-	
Plasma Science and Technology	1999-	
Plasma Sources Science and Technology	1992-	
PLOS One	2006-	
PMC Biophysics	2008-	
PMC Physics A	2007-	

Title	Electronic access	Print holdings
PMC Physics B	2008-	
Polymer	1960-	
Pramana: Journal of Physics	1973-	1986-1992
Proceedings of SPIE	1990-	
Proceedings of the International Astronomical Union	2004-	
Proceedings of the National Academy of Sciences of the United States of America	1915-	
Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences	1800-	
Progress of Theoretical Physics	1946-47	1946-
Progress in Biophysics and Molecular Biology	1963-	1950-1962
Progress in Nuclear Magnetic Resonance Spectroscopy	1965-	
Progress in Particle and Nuclear Physics	1978-	
Progress in Photovoltaics	1993-	
Progress in Surface Science	1975-	
Psychiatry Research: Neuroimaging	1991-	
Psychological Medicine	1977-	
Psychopharmacology	1959-	
Publications of the Astronomical Society of Japan	1949-	1951-2007
Publications of the Astronomical Society of the Pacific	1998-	1927-1997
Quantitative Finance	2001-	
Quantum Information Processing	2002-	
Quarterly Journal of the Royal Meteorological Society	1873-	
Quarterly Reviews of Biophysics	1968-	1968-1996
Radiation and Environmental Biophysics	1963-	
Radiation Effects and Defects in Solids	1969-	1975-1986

Title	Electronic access	Print holdings
Radiation Physics and Chemistry	1969-	
Radiological Physics and Technology	2008-	
Radiophysics and Quantum Electronics	1965-	
Radio Science	1969-	1966-2003
Regular and Chaotic Dynamics	2007-	
Reports on Mathematical Physics	1970-	
Reports on Progress in Physics	1934-	
Review of Scientific Instruments	1930-	
Reviews of Modern Physics	1929-	
Revista Mexicana de Astronomia y Astrofisica	1974-	1974-2006 (imperfect)
Russian Journal of Mathematical Physics	2006-	
Russian Physics Journal	1965-	
Science	1880-	2006-
Science and Technology of Advanced Materials	2000-	
Science China Physics, Mechanics & Astronomy	2010-	
Scientific American	2005-	1955-
Seibutsu Butsuri = Biophysics	1961-	
Semiconductors	1997-	
Semiconductor Science and Technology	1986-	
Sensing and Imaging: An International Journal	2000-	
Sensors and Actuators A	1981-	
Sensors and Actuators B	1990-	
Small	2005-	
Smart Materials and Structures	1992-	

Title	Electronic access	Print holdings
Soft Materials	2002-	
Soft Matter	2005-	
Solar Physics	1967-	
Solar System Research	2000-	1971-1982
Solid State Communications	1963-	
Solid State Nuclear Magnetic Resonance	1992-	
Solid State Sciences	1999-	
Space Science Reviews	1962-	
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	1939-	
Spectrochimica Acta, Part B: Atomic Spectroscopy	1939-	
SPIE Letters Virtual Journal	2005-	
SPIE Reviews	2010-	
Spotlight on Optics	2009-	
Springer Proceedings in Physics	2005-	
Springer Tracts in Modern Physics	1997-	1922-1975
Statistical Inference for Stochastic Processes	1998-	
Superconductor Science and Technology	1988-	
Surface Interface Analysis	1979-	
Surface Review and Letters	2001-	
Surface Science	1964-	
Surface Science Reports	1981-	
Synchrotron Radiation News	1988-	
Technical Physics	1997-	1993-1995
Technical Physics Letters	1997-	
Tetrahedron	1957-	

Title	Electronic access	Print holdings
The Astronomical Journal	1849-	1851-1997
The Astronomy and Astrophysics Review	1989-	1990-1993; 1997-2004
The Astrophysical Journal	1895-	1895-
The Astrophysical Journal Letters	1954-	
The Astrophysical Journal Supplement Series	1954-	
The European Physical Journal A: Hadrons and Nuclei	1998-	
The European Physical Journal B: Condensed Matter and Complex Systems	1962-	
The European Physical Journal C: Particles and Fields	1979-	
The European Physical Journal D: Atomic, Molecular, Optical and Plasma Physics	1986-	
The European Physical Journal E: Soft Matter and Biological Physics	2000-	
The European Physical Journal H: Historical Perspectives on Contemporary Physics	2010-	
The European Physical Journal: Applied Physics	1998-	
The European Physical Journal: Plus	2011-	
The European Physical Journal: Special Topics	2007-	
The Journal of Physiology	1878-	
The Observatory	1877-2007	1878-
The Open Applied Physics Journal	2008-	
The Open Condensed Matter Physics Journal	2008-	
The Open Nuclear & Particle Physics Journal	2008-	
The Open Nanoscience Journal	2007-	
The Open Optics Journal	2007-	
The Open Plasma Physics Journal	2008-	
The Virtual Journal for Biomedical Optics	2006-	

Title	Electronic access	Print holdings
Theoretical and Computational Fluid Dynamics	1989-	
Theoretical and Mathematical Physics	1969-	
Theoretical Population Biology	1970-	
Thin Solid Films	1967-	
Transport Theory and Statistical Physics	1971-	
Trends in Ecology and Evolution	1986-	
Ukrainian Journal of Physical Optics	2000-	
Ultramicroscopy	1975-	
Vacuum	1951-	
Vision Research	1961-	
Wave Motion	1979-	
Waves in Random and Complex Media	1991-	
Zeitschrift fur Angewandte Mathematik und Physik	1950-	1921-1944; 1964-1977
Zeitschrift fur Kristallographie - New Crystal Structures	1954-	1877-2004
Zeitschrift fur Medizinische Physik	2007-	

Appendix 4: Non-journal subscriptions

Bibliographic databases

[Inspec](#)

[ISI Web of Science with Conference Proceedings](#)

[Biological Sciences](#)

[Biosis Previews](#)

[Compendex](#)

[EMBASE](#)

[MathSciNet](#)

[Medline](#)

[SciFinder Scholar](#)

[Scopus](#)

[Technology Research Database](#)

[ZentralblattMath](#)

[ZETOC](#)

Full text resources and datasets

[AIP Conference Proceedings](#)

[IEEE Explore](#)

[Journal Citation Reports](#)

[Knovel Library](#)

[SPIE Digital Library](#)

[Springer eBook Collection](#)

[British Standards Online](#)

[Encyclopedia of Astronomy and Astrophysics](#)

[Encyclopedia of Energy](#)

[Encyclopedia of Materials: Science and Technology](#)

[Encyclopedia of Modern Optics](#)

[Encyclopedia of Physical Science and Technology](#)

[Encyclopedia of Spectroscopy and Spectrometry](#)

[Landolt-Börnstein](#)

[NetLibrary](#)

[Occupational Health and Safety Information Service](#)

[Oxford Reference Online](#)

[Reaxys](#)

[Referex Engineering](#)

[Safari Books Online](#)

[Scientific.net](#)