
Recent Publications on the History of Physics

A supplement to the Newsletter of the Center for the History of Physics/Niels Bohr Library
and The Forum for History of Physics, American Physical Society

■ BOOKS

Compiled by Per F. Dahl and Eleanor Dahl, Berkeley, California, and the staff of the Niels Bohr Library.

This list is the sixth of an annual series. It includes books on the history of modern physics and related topics (including astronomy, geophysics, and physics in medicine) published in 1997 or later. (See earlier lists for details on how the list is prepared.) Articles in journals are listed elsewhere in the Newsletter.

For more comprehensive coverage of publications on the history of science, consult the annual Current Bibliography in *Isis* (published by the University of Chicago Press for the History of Science Society). Publications on the history of astronomy are listed in the *Journal of Astronomical History and Heritage*.

We suggest that you use this list to recommend books for your institutional library; ISBN numbers are given, when available, for this purpose. Prices (which are for hardcover editions unless otherwise indicated) are subject to change by the publisher.

Permission is hereby granted to copy freely all or part of this list for any educational purpose. More extensive versions of this and the five previous lists are available on the Center's Home Page found at:

<http://www.aip.org/history/web-news.htm#bibl>

All our bibliographies for all years can be searched on our Web site. Click on "Search AIP Site" at the top of the page. You can select the area "History Center" to speed up the search. To search one year's bibliography only for, say, Einstein, enter [Einstein AND "Fall 1999"]

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■ PHILOSOPHY OF SCIENCE

Dusek, Val. The holistic inspirations of physics: The underground history of electromagnetic theory. x + 387 pp., notes, bibl., index. New Brunswick, NJ: Rutgers University Press, 1999. ISBN 0-8135-2634-5 (pb).

Rothman, Tony; Sudarshan, George. Doubts and certainty: The celebrated academy. Debates on science, mysticism, reality, in general on the knowable and unknowable, with particular forays into such esoteric matters as the mind fluid, the behavior of the stock market, and the disposition of a quantum mechanical sphinx, to name a few. xvi + 320 pp., illus., index. Reading, MA: Perseus Books, 1998. ISBN 0-7382-0006-9 (hc) \$25.00.

■ SCIENCE AND SOCIETY

Kevles, Daniel J. The Baltimore case: A trial of politics, science, and character. 509 pp., glossary of terms, glossary of source abbreviations, illus., name index, subject index. New York: W. W. Norton & Co., 1998. ISBN 0-393-04103-4 (hc) \$29.95.

Morus, Iwan Rhys. Frankenstein's children: Electricity, exhibition, and experiment in early-nineteenth-century London. xiv + 324 pp., illus., notes, bibl., index. Princeton: Princeton University Press, 1998. ISBN 0-691-05952-7 (hc) \$45.00.

Schröder, Wilfried. Naturwissenschaft und Religion (Versuch einer Verhältnisbestimmung, dargestellt am Beispiel van **Max Planck** und **Werner Heisenberg**. [in German] 60 pp. bibl. Darmstadt: Dissertations Druck, 1999. (pb) \$10.00.

■ SCIENCE AND THE MILITARY; ATOMIC WEAPONS

Avery, Donald H. The science of war: Canadian scientists and Allied military technology during the Second World War. xvi + 406 pp., illus., apps., bibl., index. Toronto: University of Toronto Press, 1999. ISBN 0-8020-5996-1 (hc) \$40.

Bowen, E. G. Radar days. 231 pp., illus. Bristol and Philadelphia: IOP Publishing, 1998. ISBN 075030586x (pb) \$41.00.

Dahl, Per F. Heavy water and the wartime race for nuclear energy. xiv + 399 pp., illus., appendices, notes, bibl., name index, subject index. Bristol and Philadelphia: IOP Publishing, 1999. ISBN 0750306335 (hc) \$60.00.

Hale, Peter Bacon. Atomic spaces: Living on the Manhattan Project. 447 pp., bibl. refs., illus., maps, index. Urbana, IL: University of Illinois Press, 1997. ISBN 0-252-02296-3 (hc) \$34.95.

Hevly, Bruce; Findlay, John (eds.). The Atomic West. x + 286, index. Seattle: University of Washington Press, 1998. ISBN 0-295-97716-7 (pb) \$19.95 ISBN 0-295-97749-3 (hc) \$35.00

Rose, Paul Lawrence. **Heisenberg** and the Nazi Atomic Bomb Project: A study in German culture. xx + 352 pp., bibl., frontispiece, index. Berkeley, : University of California Press, 1998. ISBN 0-520-21077-8 (hc) \$35.00

Shroyer, Jo Ann. Secret mesa: Inside Los Alamos National Laboratory. 230 pp., notes, index. New York: John Wiley & Sons, Inc., 1998. ISBN 0-471-04063-0 (hc) \$24.95.

■ SCIENCE AND TECHNOLOGY - ENERGY, EFFECTS ON ENVIRONMENT

Nye, David E. Consuming power: A social history of American energies. xii + 331, illus., notes, index. Cambridge, Mass.: The MIT Press, 1998. ISBN 0-262-14063-2 (hc) \$25.00.

Smith, Crosbie. The science of energy: A cultural history of energy physics in Victorian Britain. xi + 404 pp., epilogue, notes, bibl., figures, index. Chicago: University of Chicago Press, 1998. ISBN 0-226-76421-4 (hc) \$25.00.

[See also **Rose** under Science and the Military.]

■ SCIENCE AND ART, ARCHITECTURE, AND MUSIC

Galison, Peter; Thompson, Emily (eds.) The architecture of science. xviii + 576 pp., illus., index. Cambridge: The MIT Press, 1999. ISBN 0-262-07190-8 (hc) \$65.00.

Includes essays organized into six sections: "Of secrecy and openness: Science and architecture in early modern Europe"; "Displaying and concealing technics in the nineteenth century"; "Modern space"; "Is architecture science?"; "Princeton after modernism: the Lewis Thomas Laboratory for Molecular Biology"; and "Centers, cities, and colliders."

■ SCIENCE AND SOCIAL SCIENCE

Kevles, Daniel J. The Baltimore Case: A trial of politics, science, and character. 509 pp., glossary of terms, glossary of source abbreviations, endnotes, essay on sources, illus., index. New York: W.W. Norton & Co., 1998. ISBN 0-393-04103-4 (hc) \$29.95.

Morus, Iwan Rhys. Frankenstein's children: Electricity, exhibition, and experiment in early-nineteenth-century London. xiv + 324, illus., notes, bibl., index. Princeton: Princeton University Press, 1998. ISBN 0-691-05952-7 (hc) \$ 45.00.

■ SCIENCE AND GOVERNMENT; PUBLIC POLICY

Bromberg, Joan Lisa. NASA and the space industry. 256 pp., illus., index. Baltimore: The Johns Hopkins University Press, 1999. ISBN 0-8018-6050-4 (hc) \$38.50.

Hecht, Gabrielle. The radiance of France: Nuclear power and national identity after World War II. xvi + 454 pp., illus., tables, bibl., index. Cambridge, Mass., London: MIT Press, 1998. ISBN 0-262-08266-7 (hc) \$45.

Njølstad, Olav. Strøelende forskning: Institutt for Energiteknikk 1948-1998. 588 pp., illus., appendices, notes, index. Oslo: Tano Aschehoug, 1999. ISBN 82-518-3736-7.

Roberg, Jeffrey L. Soviet science under control: The struggle for influence. xii+169 pp., bibl., index. New York: St. Martin's Press, 1998. ISBN: 0312177364 (hc) \$58.50.

Wang, Jessica. American science in an age of anxiety: Scientists, anticommunism and the cold war. 392 pp. Raleigh: University of North Carolina Press, 1999. (hc) \$49.95. (pb) \$19.95.

■ INSTITUTIONAL DEVELOPMENT OF SCIENCE

Atomic Energy of Canada Limited. Canada enters the nuclear age: A technical history of Atomic Energy of Canada Limited. xiv + 434 pp., illus., bibl., index. Montreal: McGill-Queen's University Press, 1997. ISBN 0-77351601-8 (hc) ~\$65.00.

Bethell, John T. Harvard observed: An illustrated history of the university in the twentieth century. 320 pp., illus., index. Cambridge, Mass, London: Harvard University Press, 1998. ISBN 0-674-37733-8 (hc) \$39.95.

Brock, W.H.; Meadows, A.J. The lamp of learning: Two centuries of publishing at Taylor & Francis. xviii + 290 pp., illus., apps., index. London: Taylor & Francis, 1998. ISBN 0-85066-253-2 (hc) \$55.00.

Crease, Robert P. Making Physics: A biography of Brookhaven National Laboratory, 1946-1972. 416 pp. (est), halftones, maps, line drawings. Chicago, London: University of Chicago Press, 1999. ISBN 0-226-12017-1 (hc) \$38.00.

Mutel, Cornelia F. Flowing through time: A history of the Iowa Institute of Hydraulic Research. 299 pp., illus. Iowa City, IA: Iowa Institute of Hydraulic Research, University of Iowa. 1998. ISBN 0-87414-108-7 (pb) \$20.00.

Pyenson, Lewis; Sheets-Pyenson, Susan. Servants of nature: A history of scientific institutions, enterprises and sensibilities. xv + 496 pp., illus., notes, further reading, index. New York, London: W. W. Norton & Co., 1999. ISBN 0-393-04614-1 (hc) \$ 32.50.

■ HISTORY OF SCIENCE

Burke, James. The knowledge web, from electronic agents to Stonehenge and back—and other journeys through knowledge. 285 pp., illus., bibl., index. New York: Simon & Schuster, 1999. ISBN 0-684-85934-3 (hc) \$25.00.

McClellan III, James E.; Dorn, Harold. Science and technology in world history: An introduction. viii + 404 pp., illus., further reading, index. Baltimore: The Johns Hopkins University Press, 1999. ISBN 0-8018-5868-2 (hc) \$55.00; ISBN 0-8018-5869-0 (pb) \$ 18.95.

Schulman, Eric. A briefer history of time, from the big bang to the big mac. xiv + 171 pp., illus. New York: W. H. Freeman & Co., 1999. ISBN 0-7167-3389-7 (pb) \$14.95.

■ HISTORY OF PHYSICS

Fraser, Gordon (ed.) The particle century. 236 pp. Bristol and Philadelphia: IOP Publishing, 1998. ISBN 0750305436 (hc) \$59.50.

Garber, Elizabeth. The language of physics: The calculus and the development of theoretical physics in Europe, 1750-1914. xx + 400 pp., bibl., index. Boston, Basel, Berlin: Birkhäuser, 1998. ISBN 0-8176-4039-8 (hc) \$64.50.

Greene, Brian. The elegant universe: Superstrings, hidden dimensions, and the quest for the ultimate theory. xiii + 448 pp., illus., notes, glossary, refs., index. New York and London: W. W. Norton & Co., 1999. ISBN 0-393-04688-5 (hc) \$27.95.

Han, M.Y. Quarks and gluons: A century of particle charges. 168 pp. New Jersey: World Scientific, 1999. ISBN 981-02-3704-9 (hc) \$30; ISBN 981-02-3745-6 (pb) \$14.

Klever, Wim (ed.). Die Schwere der Luft. 211 pp., illus., name index. Wiesbaden: Harrassowitz Verlag, 1997. ISBN 3-447-03988-4 (hc).

Marage, P.; Wallenborn, G. (eds) The Solvay Council and the birth of modern physics. xiii+224 pp., illus., bibl. refs, index. Basel, Boston: Birkhäuser Verlag, 1999. ISBN 3-7643-5705-3 (hc) \$79.95.

Mladjenovic, M. The Defining Years in Nuclear Physics 1932-1960s. xx + 441 pp., figures, author index,

index. Bristol and Philadelphia: Institute of Physics Publishing, 1998. ISBN 0-7503-0472-3 (hc) \$150.

Porter, Neil A. *Physicists in conflict: From antiquity to the new millennium.* xv + 275 pp., illus. Bristol and Philadelphia: IOP Publishing, 1998. ISBN 0-7503-0509-6 (hc) \$39.50.

Pullman, Bernard. *The atom in the history of human thought.* Translated by **Axel Reisinger.** x + 416 pp., illus., bibl., index. New York: Oxford University Press. 1998. ISBN 0-19-511447-7 (hc) \$32.50.

Ryutova-Kemoklidze, M. *The quantum generation: Highlights and tragedies of the golden age of physics.* xix + 326 pp., bibl., illus. Berlin; New York: Springer-Verlag 1995. ISBN 0-540-53298-6 (hc) DM 59.00; Fr 52.00.

Tomonaga, Sin-itiro (translated from the Japanese by **T. Oka**). *The story of spin.* xii + 258 pp., illus. Chicago: University of Chicago Press, 1998. ISBN 0-226-80794-0 (pb) \$21.00.

Townes, Charles H. *How the laser happened: adventures of a scientist.* 200 pp., illus, index. New York: Oxford University Press, 1999. ISBN: 0195122682 (hc) \$26.95.

■ HISTORY OF ASTRONOMY, ASTROPHYSICS, COSMOLOGY & SPACE SCIENCES

Burrough, Bryan. *Dragonfly: NASA and the crisis aboard MIR.* 528 pp.,illus., ackn., index. New York: Harper Collins Publishers, 1998. ISBN 0-88736-783-3 (hc) \$26.95.

Cernan, Eugene; Davis, Don. *The last man on the Moon: Astronat Eugene Cernan and America's race in space.* xii + 356 pp., illus., index. New York: St. Martin's Press, 1999. ISBN 0-312-19906-6 (hc) \$ 24.95.

Dick, Stevens J. *Life on other worlds: The 20th-Century extraterrestrial life debate.* xiii + 290 pp., illus., bibl., essay, index. Cambridge: Cambridge University Press, 1998. ISBN 0-521-62012-0 (hc) \$24.95.

Evans, James. *The history and practice of ancient astronomy.* xiii + 480 pp., illus., appendix, bibl. New York: Oxford University Press, 1998. ISBN 0-19-509539-1 (hc) \$65.00.

Hockey, T. A. *Galileo's planet: Observing Jupiter before photography.* 236 pp. Bristol and Philadelphia: IOP Publishing, 1998. ISBN 0-7503-0448-0 (hc) \$49.50.

[**Ptolemy**] **Ptolemy's Almagest.** Translated and annotated by **G. J. Toomer**, with foreword by **Owen Gingerich.** xvii + 693 pp., illus., appendices, bibl., index. Princeton: Princeton University Press, 1998. ISBN 0-691-00260-6 (pb) \$39.50.

Stephenson, Richard F. *Historical eclipses and Earth's rotation.* xvi + 557 pp., appendices, indices: eclipse records, places of observation, name, and subject. Cambridge: Cambridge University Press, 1997. ISBN 0-521-46194-4 (hc) \$160.00.

[See also **Lankford** under **REFERENCE WORKS**]

■ HISTORY OF EARTH SCIENCES

Fleming, James Rodger. *Historical perspectives on climate change.* xi + 194 pp., notes, bibl., figures, index. New York: Oxford University Press, 1998. ISBN 0-19-50787-0 (hc) \$45.00.

Lamb, Simon; Sington, David. *Earth story: The shaping of our world.* 240 pp., illus., app., bibl., index. Princeton: Princeton University Press, 1998. 0-691-00229-0 (hc) \$29.95.

Schröder, Wilfried. *Physics and Geophysics (A compilation of special historical case studies)* [in German,

some English]. 344 pp., illus. Bremen-Roennebeck: History Commission of the German Geophysical Society, 1999. ISSN: 0179-5658 (pb) \$25.00.

■ HISTORY OF MATHEMATICS

Aull, C. E.; Lowen, R. (eds.) Handbook of the history of general topology. Vol. 1. 408 pp., illus., bibl., index. Dordrecht and Boston: Kluwer, 1997. ISBN 0-7923-4479-0 (hc) \$183.00.

Aull, C. E.; Lowen, R. (eds.) Handbook of the history of general topology. Vol. 2. 408 pp., illus., bibl., index. Dordrecht and Boston: Kluwer, 1998. ISBN 0-7923-5030-8 (hc) \$173.00.

Blay, Michel. Reasoning with the infinite: From the closed world to the mathematical universe. Translated by **M.B. DeBevoise**. x + 216 pp., notes, bibl., figures, index. Chicago: University of Chicago Press, 1998. ISBN 0-226-05834-4 (hc) \$30.00.

Ceruzzi, Paul. A history of modern computing. xii + 398 pp., illus., bibl., index. Cambridge, Mass.: MIT Press, 1998. ISBN 0-262-03255-4 (hc) \$35.00.

Heilbron, John. Geometry civilized: History, culture and technique. 328 pp., color plates, halftones and linecuts. New York: Oxford University Press, 1998. ISBN 0-19-850078-5 (hc) \$60.00.

Mancosu, Paolo. From **Brouwer to Hilbers**: The debate on the foundations of mathematics in the 1920s. x + 337, index. New York: Oxford University Press, 1998. ISBN 0-19-509632-0 (pb) \$29.95.

Maor, Eli. e: The story of a number. xiv + 227 pp., illus., appendices, bibl., index. Princeton: Princeton University Press, 1998. ISBN 0-691-05854-7 (pb) \$14.95.

Nahin, Paul J. An imaginary tale: The story of $\sqrt{-1}$. xvi + 257 pp., illus., appendices, notes, name index, subject index. Princeton: Princeton University Press, 1998. ISBN 0-691-02795-1 (hc) \$ 24.95.

■ HISTORY OF TECHNOLOGY

Gove, Harry. From Hiroshima to the iceman: The development and applications of accelerator mass spectrometry. 226 pp., illus. Bristol and Philadelphia: IOP Publishing, 1999. ISBN 0750305584 (pb) \$27.00.

Harris, J.R. Industrial Espionage and Technology Transfer: Britain and France in the eighteenth century. xvii + 655 pp., illus., notes, list of archives consulted, bibl., index. Aldershot, England: Ashgate Publishing Co., 1998. ISBN 0-85967-827-X (hc) \$110.95.

Mack, Pamela E. (ed.) From engineering science to big science: The NACA and NASA Collier Trophy Research Project winners. (NASA History Series, SP-4219.) xxiv+428 pp., illus., app., index. Washington, D.C.: NASA, 1998. \$35.00.

Pattillo, Donald M. Pushing the envelope: The American aircraft industry. viii+459 pp., illus., appendix, notes, bibl., index, index of aircraft, engines, missiles, and space vehicles. Ann Arbor: University of Michigan Press, 1998. ISBN 0-472-10869-7 (hc) \$45.00.

Rhodes, Richard (ed.) Visions of technology: A century of vital debate about machines, systems and the human world. 400 pp., illus., bibl., index. New York: Simon & Schuster, 1999. ISBN 0-684-83903-2 (hc) \$30.00.

■ COLLECTED BIOGRAPHIES (3 or more scientists)

Wolpert, Lewis; Richards, Allison. *Passionate minds: The inner world of scientists.* vii + 240, illus., index. Oxford, New York, Tokyo: Oxford University Press, 1997. ISBN 0-19-854904-0 (hc) \$25.00.

McGrayne, Sharon Bertsch. *Nobel Prize women in science: Their lives, struggles, and momentous discoveries.* 451 pp., illus., index. New York: Carol, 1998. ISBN 0-806502025-6 (pb) \$19.95.

■ INDIVIDUAL BIOGRAPHIES & AUTOBIOGRAPHIES; ANALYSES OF A SCIENTIST'S WORK

[Bacon, Francis] Zagorin, Perez. Francis Bacon. xvi + 286, illus., notes, index. Princeton: Princeton University Press, 1998. ISBN 0-691-05928-4 (hc) \$29.95.

[Boltzmann, Ludwig] Cercignani, Carlo. Ludwig Boltzmann: The man who trusted atoms. xvii + 319 pp., illus., appendices, index. Oxford, New York: Oxford University Press, 1998. ISBN 0-198-50154-4 (hc) \$50.00.

[Edison, Thomas Alva] Israel, Paul: Edison: A life of invention. viii + 552 pp., illus., index. New York: John Wiley & Sons, 1998. ISBN 0-471-52942-7 (hc) \$30.00.

[Erdős, Paul] Hoffman, Paul. The man who loved only numbers: The story of **Paul Erdős** and the search for mathematical truth. 302 pp. New York: Hyperion, 1998. ISBN 0-7868-6362-5 (hc) \$22.95.

[Erdős, Paul] Schechter, Bruce. My brain is open: The mathematical journey of **Paul Erdős**. 224 pp. New York: Simon and Schuster, 1998. ISBN 0-684-84635-7 (hc) \$25.00.

[Halley, Edmond] Cook, Alan. Edmond Halley: Charting the heavens and the seas. 576 pp., illus., index. New York: Oxford University Press, 1998. ISBN 0-19-850031-9 (hc) \$37.50.

Harman, P.M. The natural philosophy of **James Clerk Maxwell**. xiv + 232 pp., notes, figures, index. Cambridge: Cambridge University Press, 1998. ISBN 0-521-56102-7 (hc) \$59.95.

[Land, Edwin H.] McElheny, Victor K. Insisting on the impossible: The life of **Edwin Land**. xvi + 510 pp., illus. Reading, Mass.: Perseus Books, 1998. ISBN 0-7382-0009-3 (hc) \$30.00.

[Mott, Nevill] Davis, E. A. (ed.) Nevill Mott: Reminiscences and appreciations. Preface by **Tony Selvey**. xxx + 338 pp., illus. London: Taylor & Francis, 1998. ISBN 0748407901 (hc) \$45.00.

[Serber, Robert] Serber, Robert, with Robert P. Crease. Peace and war: Reminiscences of a life on the frontiers of science. xxiii+241 pp., illus, bibl. refs. New York: Columbia University Press, 1998. ISBN 0-231-10546-0 (hc) \$29.95.

[Sponer, Hertha] Maushart, Marie-Ann. "Um mich nicht zu vergessen": **Hertha Sponer**—ein Frauenleben für die Physik im 20 Jahrhundert. 188 pp., illus., tables, apps., bibl., index. Bassum: GNT-Verlag, 1997. (pb) DM39.00.

[Wheeler, John Archibald] Wheeler, John Archibald, with Kenneth Ford. Geons, black holes and quantum foam: A life in physics. 380 pp. New York: W. W. Norton, 1998. ISBN 0-393-04642-7 (hc) \$29.95.

■ COLLECTED WORKS OF SCIENTISTS (including unpublished papers)

[Amaldi, Edoardo] 20th century physics: essays and recollections. A selection of historical writings by **Edoardo Amaldi**, edited by **Giovanni Battimelli** and **Giovanni Paoloni**. xiii + 747 pp., illus., bibl. Singapore and New Jersey: World Scientific, 1998. ISBN 9810223692 (hc) \$119.00.

[**Einstein, Albert**] The collected papers of **Albert Einstein**, Vol. 8: The Berlin years: Correspondence, 1914-1918, edited by **Robert Schulmann, A.J. Kox, Michel Janssen, and Jozsef Illy**. Parts A and B, lxxii + xxx + 1,118 pp., illus., apps., bibl., indexes. Princeton, NJ: Princeton University Press, 1998. ISBN 0-691-04849-5 (hc) \$175.00.

[**Herschel, Sir John**] A Calendar of the Correspondence of **Sir John Herschel**. **Michael J. Crowe** (ed), with **David R. Dyck; James J. Kevin** (assoc. eds). 836 pp., bibl., index. Cambridge: Cambridge University Press, 1998. ISBN 0-521-63149-1 (hc) \$150.00.

[**Lanczos, Cornelius**] **Cornelius Lanczos**. Collected Published papers with commentaries. Edited by **W.R. Davis** et al. 6 vols, bibliographies. Raleigh, NC: North Carolina State University, 1999. ISBN 0-929493-00-3 (hc) \$120.00.

[**Ersted, Hans Christian**] Selected scientific works of **Hans Christian Ersted**, translated and edited by **Karen Jelved, Andrew D. Jackson, and Ole Knudsen**, with an introduction by **Andrew D. Wilson**. xl + 647 pp., subject index, name index. Princeton: Princeton University Press, 1998. ISBN 0-691-04334-5 (hc) \$89.50.

■ TEXTS, LECTURES, AND POPULAR WRITINGS BY SCIENTISTS

Meitner, Lise and Laue, Max von. **Lise Meitner-Max von Laue**: Briefwechsel 1938-1948, compiled by **Jost Lemmerich**. 560 pp., illus., apps., bibl., index. Berlin: ERS, 1998. (hc) DM 64.50.

■ BIOGRAPHICAL SOURCES

Barr, Jean; Birke, Lynda. Common science? Women, science, and knowledge. x + 166 pp., bibl., indexes. Bloomington/Indianapolis: Indiana University Press, 1998. ISBN 0-253-21181-6 (pb) \$13.95 ISBN 0-35233386-6 (hc) \$29.95.

Creese, Mary R. Ladies in the laboratory?: American and British women in science, 1800-1900: a survey of their contribution to research. With contributions by **Thomas Creese**. xii+452 pp., illus., bibl. ref., index. Lanham, MD: Scarecrow Press, 1998. ISBN: 0810832879 (hc) \$88.65.

■ BIBLIOGRAPHIES AND GUIDES

Neu, John (ed.) ISIS cumulative bibliography, 1986-1995. Vol. 1, 496 pp., Persons: A-L; Vol. 2, 480 pp., Persons: M-Z, Institutions; Vol. 3, 640 pp., Subjects, Time periods: Antiquity-18th century; Vol. 4, 739 pp., Time periods: 19th-20th centuries, Book reviews. Canton, MA: Science History Publications, 1997. ISBN 0-88135-131-8 (hc) \$249.95, the set.

■ REFERENCE WORKS: ENCYCLOPEDIAS, HANDBOOKS, etc.

Good, Gregory A. (ed.). Sciences of the Earth: An encyclopedia of events, people, and phenomena. 2 Vols.; Vol. 1: ix + 408 pp., Vol. 2: 409-901, illus., name index, subject index. New York: Garland Publishing Inc., 1998. ISBN 0-815-0062-X (hc) \$150.00 for both.

Gribbon, John. Q is for quantum: An encyclopedia of particle physics. 545 pp., illus., bibl., timelines. New York: The Free Press, 1998. ISBN 0-684-85578-X (hc) \$ 35.00.

Lankford, John (ed.). History of Astronomy: An encyclopedia. xix + 594 pp., illus, index.. New York: Garland Publishing Inc., 1997. ISBN 0-8153-0322-X (hc) \$105.00.

