
Recent Publications on the History of Physics

A supplement to the Newsletter of The Center for 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 tenth 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 2002 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 institution's 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.

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www.aip.org/history/web-news.htm#bibl

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■ PHILOSOPHY OF SCIENCE

Blackmore, J.; Itagaki, R.; Tanaka, S. *Ernest Mach's Vienna 1895-1930: Or Phenomenalism as Philosophy of Science.* [Boston Studies in the Philosophy of Science, vol. 218]. x + 347 pp., name, index. Dordrecht, Boston, London: Kluwer Academic Publishers, 2001. ISBN 0-7923-7122-4 (hc) \$118.00.

Buzaclo, Meir. *Solomon Maimon: Monism, Skepticism and Mathematics.* xiii + 168 pp., app., notes, bibl., index. Pittsburgh: Pittsburgh University Press, 2002. ISBN 0-8229-4176-7 (hc).

Heidelberger, Michael; Stadler, Friedrich. *History of Philosophy of Science: New Trends and Perspectives.* x + 440 pp., index of names. Dordrecht, Boston, London: Kluwer Academic Publishers, 2002. ISBN 1-4020-0509-1 (hc) \$127.00.

Nickles, Thomas. Thomas Kuhn: *Contemporary Philosophy in Focus.* xiv + 298 pp., bibl., index. Cambridge and New York: The Cambridge University Press, 2003. ISBN 0-521-79206-01 (hc) \$58.00.

Radder, Hans (ed.) *The Philosophy of Scientific Experimentation.* xii + 311 pp., illus., figs., table, bibl., index. Pittsburgh: University of Pittsburgh Press, 2003. ISBN 0-8229-5795-7 (pb) \$29.95.

Tantillo, Astrida Orle. *The Will to Create: Goethe's Philosophy of Nature.* xiv + 241 pp., illus., bibl., index. Pittsburgh: University of Pittsburgh Press, 2002. ISBN 0-822904177-5 (hc) \$32.50.

■ SCIENCE AND SOCIETY

Bowler, Peter J. *Reconciling Science and Religion: The Debate in Early-Twentieth-Century Britain.* xiii + 479 pp., illus., biogr., app., bibl., index. Chicago and London: The University of Chicago Press, 2001. ISBN 0-226-06858-7 (hc) \$40.00.

Ferris, Timothy; Hawking, Stephen; Lightman, Alan; Novikov, Igor; Thorne, Kip. *The Future of Spacetime.* Introduction by **Richard Price.** 224 pp., illus., bibl., index. New York: W.W. Norton, 2002. ISBN 0393020223.

Giberti, Bruno. *Designing the Centennial: A History of the 1876 International Exhibition in Philadelphia.* xii + 304 pp., illus., app., bibl., index. Lexington: University Press of Kentucky, 2002. ISBN 0-8131-2231-7 (hc) \$50.00.

Gispén, Kees. *Poems in Steel: National Socialism and the Politics of Inventing From Weimar to Bonn.* xvi + 356 pp., figs., bibl., index. New York: Berghahn Books, 2002. ISBN 1-57181-242-3 (hc) \$75.00.

Highfield, Roger. *The Science of Harry Potter.* xxii + 322 pp., refs., index. New York: Penguin Books, 2002. ISBN 0-14200355-7 (pb) \$14.00.

Hook, Ernest B. (ed.) *Prematurity in Scientific Discovery: On Resistance and Neglect.* 398 pp. Berkeley: University of California Press, 2002. ISBN 0-520-23106-6 (hc) \$80.00.

James, Frank A. J. L. (ed.) *The Common Purposes of Life: Science and Society at the Royal Institution of Great Britain.* xvi + 456 pp., illus., figs., app., bibl., index. Hants: Ashgate, 2002. ISBN 0-7546-0960 (hc) \$99.95.

Péscic, Peter. *Seeing Double: Shared Identities in Physics, Philosophy, and Literature.* 184 pp., illus., notes, index. Cambridge and London: The MIT Press, 2002. ISBN 0-262-16205-9 (hc) \$24.95.

Sonnert, Gerhard; Holton, Gerald. *Ivory Bridges: Connecting Science and Society.* 327 pp., bibl., index. Cambridge, MA and London, 2002. ISBN 0-262-1947-6 (hc) \$30.00.

Stamhuis, Ida H.; Koetsier, Tenn; De Pater, Cornelis; Van Helden, Albert (eds.) *The Changing Image of the Sciences.* x + 226 pp., illus., figs., index. Dordrecht, Boston, and London: Kluwer Academic Publishers, 2002. ISBN 1-4020-0874-3 (hc) \$65.00.

Tietge, David J. *Flash Effects: Science and the Rhetorical Origins of Cold War America.* xviii + 199 pp., illus., bibl., index. Athens, Ohio: Ohio University Press, 2002. ISBN 0-8214-1434-8 (hc) \$55.00.

Williams, Rosalind. *Retooling: A Historian Confronts Technological Change.* 272 pp. Cambridge: The MIT Press, 2002. ISBN 0-262-23223-5 (hc) \$27.95.

■ SCIENCE AND ART, ARCHITECTURE, AND MUSIC

Gamwell, Lynn. *Exploring the Invisible: Art, Science, and the Spiritual.* 344 pp., illus. Princeton: Princeton University Press, 2002. ISBN 0-691-08972-8 (hc) \$49.95.

Jowitt, Claire; Watt, Diane (eds.) *The Arts of 17th Century Science: Representations of the Natural World in European and North American Culture.* xiv + 270 pp., illus., bibl., index. Burlington, VT: Ashgate, 2002. ISBN 0-7546-0417-9 (hc) \$84.95.

■ SCIENCE AND THE MILITARY; ATOMIC WEAPONS

- Bergeron, Kenneth D.** *Tritium on Ice: The Dangerous New Alliance of Nuclear Weapons and Nuclear Power.* xi + 234 pp., apps., notes, bibl., index. Cambridge, MA and London: The MIT Press, 2002. ISBN 0-262-02527-2 (hc) \$24.95.
- Biddle, Tami Davis.** *Rhetoric and Reality in Air Warfare: The Evolution of British and American Ideas about Strategic Bombing, 1914-1945.* vii + 406 pp., notes, sources, index. Princeton: Princeton University Press, 2002. ISBN 0-691-08909-4 (hc) \$45.00.
- Dyson, George.** *Project Orion: The True Story of the Atomic Spaceship.* xv + 345 pp., illus., app., notes, index. New York: Henry Holt and Company, 2002. ISBN 0-8050-5985-7 (hc) \$26.00.
- Graham, Thomas Jr.** *Disarmament Sketches: Three Decades of Arms Control and International Law.* xx + 362 pp., illus., index. Seattle and London: University of Washington Press, 2002. ISBN 0-295-98212-8 (hc) \$35.00.
- Kohlhoff, Dean W.** *Amchitka and the Bomb: Nuclear Testing in Alaska.* x + 166 pp., notes, index. Seattle and London: University of Washington Press, 2002. ISBN 0-295-98255-1 (hc) \$25.00.
- Schachtman, Tom.** *Laboratory Warriors: How Allied Science and Technology Tipped the Balance in World War II.* viii + 360 pp., illus., bibl., index. Harper Collins, 2003. ISBN 0-380-81623-7 (pb) \$13.95.
- Zaloga, Steve.** *The Kremlin's Nuclear Sword: The Rise and Fall of Russia's Strategic Nuclear Forces, 1945-2000.* viii + 296 pp., illus., bibl., refs., index. Washington, D.C.: Smithsonian Institution Press, 2002.

■ SCIENCE AND TECHNOLOGY – ENERGY, EFFECTS ON ENVIRONMENT

- Jacobson, Mark Z.** *Atmospheric Pollution: History, Science, and Regulation.* 399 pp., illus., tables, index. Cambridge: Cambridge University Press, 2002. ISBN 0521811716 (hc) \$110.00.
- Josephson, Paul R.** *Industrialized Nature: Brute Force Technology and the Transformation of the Natural World.* vii + 313 pp., illus., index. Washington, D.C.: Island Press, 2002. ISBN 1-55963-777-3 (hc) \$25.00.
- Kryza, Frank T.** *The Power of Light: The Epic Story of Man's Quest to Harness the Sun.* xiv + 298 pp., illus., bibl., index. New York: McGraw-Hill, 2003. ISBN 0-07-140021-4 (hc) \$24.95.
- Parsons, Keith** (ed.) *The Science Wars: Debating Scientific Knowledge and Technology.* 325 pp., bibl., essay. Prometheus Books, 2003. ISBN 1-57392-994-8 (pb) \$21.00.
- Scamehorn, Lee.** *High Altitude Energy: A History of Fossil Fuels in Colorado. Mining the American West Series.* 244 pp., illus., index. Boulder: University Press of Colorado, 2002. ISBN 0870816616 (hc) \$27.50.

■ SCIENCE AND GOVERNMENT; PUBLIC POLICY

- Dolman, Everett C.** *Astropolitik: Classical Geopolitics in the Space Age.* xii + 208 pp., illus., bibl., index. London: Frank Cass, 2002. ISBN 0714652008.
- Gispén, Kees.** *Poems in Steel: National Socialism and the Politics of Inventing from Weimar to Bonn.* xvi + 356 pp., figs., bibl., index. New York: Berghahn Books, 2002. ISBN 1571812423 (hc) \$75.00.
- Goldman, Lawrence.** *Science, Reform, and Politics in Victorian Britain: The Social Science Administration 1857-1886.* xvi + 430 pp., illus., apps., bibl., index. Cambridge: Cambridge University Press, 2002. ISBN 0-521-33053-X (hc) \$70.00.
- Jerome, Fred.** *The Einstein File: J. Edgar Hoover's Secret War Against the World's Most Famous Scientist.* xxii + 358 pp., illus., bibl., index. New York: St. Martin's Press, 2002. ISBN 0312288565.
- Lambright, W. Henry** (ed.) *Space Policy in the Twenty-First Century.* 272 pp. Baltimore: The Johns Hopkins University Press, 2002. ISBN 0-8018-7068-2 (hc) \$49.95.
- Remy, Steven P.** *The Heidelberg Myth: The Nazification and Denazification of a German University.* 320 pp. Cambridge, Mass.: Harvard University Press, 2003. ISBN 0-674-00933-9 (hc) \$39.95.

■ INSTITUTIONAL DEVELOPMENT OF SCIENCE

- Dick, Stephen J.** *Sky and Ocean Joined: The U.S. Naval Observatory 1830-2000.* xiv + 609 pp., bibl., index. Cambridge: Cambridge University Press, 2003. ISBN 0-521-81599.

Hall, Marie Boas. Henry Oldenburg: Shaping the Royal Society. xii + 369 pp., halftones, notes, index. Oxford: Oxford University Press, 2002. ISBN 019851035 (hc) \$100.00.

Hazen, Margaret Hindle; Trefil, James. Good Seeing: A Century of Science at the Carnegie Institution of Washington. Foreword by **Timothy Ferris**. x + 244 pp., illus., bibl., index. Washington, D.C.: Joseph Henry Press, 2002. ISBN 0309082617.

National Institute of Standards and Technology (U.S.). A Century of Excellence in Measurements, Standards, and Technology. ix + 386 pp., illus., bibl., index. Boca Raton, Fla.: CRC Press, 2002. ISBN 0849312477.

Norton, David W. Fifty More Years Below Zero: Tributes and Meditations for the Naval Arctic Research Laboratory's First Half Century at Barrow, Alaska. With a foreword by **Maxwell E. Britton**. xvi + 576 pp., illus., figs., tables, bibl., index. Fairbanks: University of Alaska Press, 2001. ISBN 0-919034-98-5 (pb) CDN\$30.00.

Westwick, Peter J. The National Labs: Science in an American System, 1947-1974. 384 pp., illus., tables. Cambridge, Mass.: Harvard University Press, 2003. ISBN 0-674-00948-7 (hc) \$49.95.

■ HISTORY OF SCIENCE

Alder, Ken. The Measure of All Things: The Seven-Year Odyssey and Hidden Error that Transformed the World. x + 422 pp., illus., notes, bibl., index. New York: The Free Press, 2002. ISBN 1-800-456-6798 (hc) \$27.00.

Gross, Alan G; Harmon, Joseph E.; Reidy, Michael. Communicating Science: The Scientific Article from the 17th Century to the Present. xii + 267 pp., illus., tables, apps., bibl., index. Oxford and New York: Oxford University Press, 2002. ISBN 0-19-513454-0 (hc) \$60.00.

Hargittai, István. The Road to Stockholm: Nobel Prizes, Science, and Scientists. xviii + 342 pp., illus., tables, index. Oxford and New York: Oxford University Press, 2002. ISBN 0-19-850912-X (hc) \$29.95.

Harre, Rom. Great Scientific Experiments: Twenty Experiments that Changed Our View of the World. 224 pp., illus., bibl., index. Mineola: Dover Publications, 2002. ISBN 0-486-42263-1 (pb) \$11.95.

Lee, Rupert. The Eureka! Moment: 100 Key Scientific Discoveries of the 20th Century. xviii + 175 pp., illus., index. New York: Routledge, 2002. ISBN 0-415-93941-0 (hc) \$25.00.

Margolis, Howard. It Started with Copernicus: How Turning the World Inside Out Led to the Scientific Revolution. ii + 224 pp., illus., app., refs., index. New York: McGraw-Hill, 2002. ISBN 0-07-138507-X (hc) \$24.95.

Nye, Mary Jo (ed.) The Modern Physical and Mathematical Sciences. [The Cambridge History of Science, vol. 5.] xxix + 678 pp., illus., index. Cambridge: Cambridge University Press, 2003. ISBN 0-521-57199-5 (hc) \$80.00.

Porter, Roy (ed.) Eighteenth-Century Science. [The Cambridge History of Science, vol.4] 2003 pp., illus., index. Cambridge: Cambridge University Press, 2003. ISBN 0-521-57243-6 (hc) \$95.00.

Rosner, Lisa (ed.) Chronology of Science from Stonehenge to the Human Genome Project. x + 566 pp., illus., apps., gloss., index. Santa Barbara, CA., Denver, Oxford: ABC Clío, 2002. ISBN 1-57607-954-6 (hc) \$85.00.

Strathern, Paul. Mendeleev's Dream: The Quest for the Elements. ix + 309 pp., illus., index. New York: Penguin Putnam Inc., 2002. ISBN 0-425-18467-6 (pb) \$14.00.

Teresi, Dick. Lost Discoveries: The Ancient Roots of Modern Science—From the Babylonians to the Maya. vii + 453 pp., notes, bibl., index. New York: Simon & Schuster, 2002. ISBN 0684837188 (hc) \$27.00.

Waller, John. Einstein's Luck: The Truth Behind Some of the Greatest Scientific Discoveries. xi + 308 pp., illus., notes, index. Oxford: Oxford University Press, 2002. ISBN 0-19-860719-19 (hc) \$30.00.

Windelspecht, Michael. Groundbreaking Scientific Experiments, Inventions, and Discoveries of the Seventeenth Century. xxi + 270 pp., bibl., index. Westport, Conn. and London: Greenwood Press, 2002. ISBN 0313315019 (hc) \$69.95.

■ HISTORY OF PHYSICS

Ball, Phillip. The Ingredients: A Guided Tour of the Elements. xii + 216 pp., bibl., index. Oxford and New York: The Oxford University Press, 2002. ISBN 0-19-284100-9 (hc) \$22.00.

Boudri, J. Christian. What Was Mechanical About Mechanics: The Concept of Force Between Metaphysics and Mechanics from Newton to Lagrange. xvi + 276 pp., figs., bibl., index. Netherlands: Kluwer Academic Publishers, 2002. ISBN 1402002335 (hc) \$112.00.

Cohen, J. Bernard; Smith, George E. (eds.) *The Cambridge Companion to Newton* (Cambridge Companions). xiv + 500 pp., figs., bibl., index. Cambridge and New York: Cambridge University Press, 2002. ISBN 0521651778 (hc) \$65.00.

Dolling, Lisa M.; Gianelli, Arthur F.; Statile, Glenn N. (eds.) *The Tests of Time: Readings in the Development of Physical Theory*. 768 pp., illus. Princeton: Princeton University Press, 2003. ISBN 0-691-09084-X (hc) \$99.00. ISBN 0-691-09085-8 (pb) \$36.95.

Parker, Barry. *Quantum Legacy: The Discovery that Changed Our Universe*. 282 pp., illus., figs., bibl., index. Amherst, NY: Prometheus Books, 2002. ISBN 1-57392-993-X (hc) \$29.00.

Sengers, Johanna Levelt. *How Fluids Unmix: Discoveries by the School of Van der Waals and Kamerlingh Onnes*. *History of Science and Scholarship in the Netherlands*, vol. 4. xv + 302 pp., figs., index. Amsterdam: KNAW, 2002. ISBN 90-6984-340-4, (hc) \$45.45.

Simon, Bart. *Undead Science: Science Studies and the Afterlife of Cold Fusion*. x + 252 pp., bibl., index. New Brunswick, NJ: Rutgers University Press, 2002. ISBN 0-8135-3154-3 (pb) \$22.00.

■ HISTORY OF ASTRONOMY, ASTROPHYSICS, COSMOLOGY & SPACE SCIENCES

Ferguson, Kitty. Tycho and Kepler: *The Unlikely Partnership that Forever Changed Our Understanding of the Heavens*. xiv + 402 pp., illus., apps., notes, bibl., index. New York: Walker & Co., 2002. ISBN 0-8027-1390-4 (hc) \$28.00.

Fernie, Donald. *Setting Sail for the Universe: Astronomers and Their Discoveries*. x + 192 pp., notes, refs., index. New Brunswick, N.J. and London: Rutgers University Press, 2002. ISBN 0-8135-3088-1 (hc) \$25.00.

Garber, Stephen J. (ed.) *Looking Backwards, Looking Forward: Forty Years of U.S. Human Spaceflight Symposium*. *The NASA History Series*. NASA SP-2002-4107. Introduction by **John M. Logsdon**. vi + 247 pp., illus. Washington, D.C.: NASA, 2002. ISBN 0-16-067595-2 (pb) \$17.00.

Johnson, Stephen B. *The Secret of Apollo: Systems Management in American and European Space Programs*. (New Series in NASA History.) xx + 290 pp., illus., figs., index. Baltimore and London: The Johns Hopkins University Press, 2002. ISBN 0-8018-6898-X (hc) \$41.50.

Lorenz, Ralph; Mitton, Jacqueline. *Lifting Titan's Veil: Exploring the Giant Moon of Saturn*. 268 pp., illus. Cambridge, MA: Cambridge University Press, 2002. ISBN 0-521-79348-3 (hc) \$29.00.

Newport, Curt. *Lost Spacecraft: The Search for Liberty Bell 7*. 212 pp., illus., apps. Burlington, Ontario: An Apogee Publication, 2002. ISBN 1-896522-88-2 (hc) \$28.95 U.S.

Pang, Alex Soojung-Kim. *Empire and the Sun: Victorian Solar Eclipse Expeditions*. xiv + 196 pp., illus., tables, index. Stanford: Stanford University Press, 2002. ISBN 0-8047-3926-9.

Sato, K.; Shiromizu, T. (eds.) *New Trends in Theoretical and Observational Cosmology*. RESCEU International Symposium Series, no. 5. xvi + 407 pp., figs., tables, index. Tokyo: Universal Academy Press, 2002. ISBN 4-946443-73-8 (hc) \$75.00.

Tucker, Wallace; Tucker, Karen. *Revealing the Universe: The Making of the Chandra X-Ray Observatory*. vi + 295 pp., illus., bibl., index. Cambridge, MA: Harvard University Press, 2001. ISBN 0-674-00497-3 (hc) \$27.95.

Vermij, Rienk. *The Calvinist Copernicans: The Reception of the New Astronomy in the Dutch Republic, 1575-1750*. *History of Science and Scholarship in the Netherlands Series*, vol. 1. x + 433 pp., bibl., index. Amsterdam: Koninklijke Nederlandse Akademie van Wetenschappen, 2002. ISBN 90-6984-340-4 (hc) \$48.12.

■ HISTORY OF EARTH SCIENCES

Alley, Richard B. *The Two-Mile Time Machine: Ice Cores, Abrupt Climate Change, and Our Future*. 240 pp., illus., figs., index. Princeton: Princeton University Press, 2002. ISBN 0-691-10296-1 (pb) \$17.95.

Benson, Keith R.; Rehbock, Philip F. (eds.) *Oceanographic History: The Pacific and Beyond*. *Proc. Fifth Int. Congress on the History of Oceanography*, Scripps Institution of Oceanography, La Jolla, Ca, July 1993. xii + 556 pp., illus., index. Seattle and London: University of Washington Press, 2002. ISBN 0-295-98239-X (hc) \$60.00.

Bravo, Michael; Sirlin, Sverker (eds.) *Narrating the Arctic: A Cultural History of Nordic Scientific Practices*. x + 373 pp., illus., index. Canton, MA: Science History Publications, 2002. ISBN 0-88135-385-X (hc) \$39.95.

Harley, J.B., *Introd. essay by J.H. Andrews.* *The New Nature of Maps: Essays in the History of Cartography*. 352 pp., illus. Baltimore: The Johns Hopkins University Press, 2000. ISBN 0-8018-7090-9 (pb) \$19.95.

Mayewski, Paul Andrew; White, Frank. *The Ice Chronicles: The Quest to Understand Global Climate Change.* Foreword by **Lynn Margulis.** xxv + 233 pp., illus., tables, figs., refs., index. Hanover: University Press of New England, 2002. ISBN 1-58465-061-3 (hc) \$24.95.

Murphy, David Thomas. *German Exploration of the Polar World: A History, 1870-1940.* xiv + 273 pp., illus., table, bibl., index. Lincoln, NE and London: University of Nebraska Press, 2002. ISBN 0-8032-3205-5 (hc) \$50.00.

Oldroyd, David R. *The Earth Inside and Out: Some Major Contributions to Geology in the Twentieth Century.* (Geological Society Special Publication No. 192.) 369 pp., illus., tables, graphs, index. London: Geological Society Publishing House, 2002. ISBN 1-86239-096-7.

Rozwadowski, Helen M. *The Sea Knows No Boundaries: A Century of Marine Science Under ICES [Int. Council for the Exploration of the Sea].* ix + 410 pp., illus., notes, bibl., index. Seattle and London: University of Washington Press, 2002. ISBN 0-295-98259-4 (hc) \$50.00.

Schulten, Susan. *The Geographic Imagination in America, 1880-1950.* x + 319 pp., illus., notes, bibl., index. Chicago and London: The University of Chicago Press, 2001. ISBN 0-226-74055-2 (hc) \$40.00. ISBN 0-226-74056-0 (pb) \$22.00.

■ HISTORY OF MATHEMATICS

Akera, Atsushi; Nebeker, Frederick (eds.). *From 0 to 1: An Authoritative History of Modern Computing.* xi + 228 pp., illus., apps., index. New York: Oxford University Press, 2002. ISBN 0-19-514025-7 (hc) \$30.00.

Ascher, Marcia. *Mathematics Elsewhere: An Exploration of Ideas Across Cultures.* xii + 207 pp., illus., figs., index. Princeton and Oxford: Princeton University Press, 2002. ISBN 0-691-07020-2 (hc) \$24.95.

Berlinghoff, William P.; Gouvàa, Fernando Q. *Math Through the Ages: A Gentle History for Teachers and Others.* viii + 216 pp., illus., figs., bibl., index. Farmington, Maine: Oxton House Publishers, 2002. ISBN 1-881929-21-3 (pb) \$19.95.

Devlin, Keith. *The Millennium Problems: The Seven Greatest Unsolved Mathematical Puzzles of Our Time.* x + 237 pp., index. New York: Basics Books, 2002. ISBN 0-465-01729-0 (hc) \$26.00.

Segal, Sanford L. *Mathematicians Under the Nazis.* 488 pp., illus., index. Princeton: Princeton University Press, 2003. ISBN 0-691-00451-X (hc) \$49.50.

■ HISTORY OF INSTRUMENTS

Bourguet, Marie-Noelle; Licoppe, Christian; Sibum, Otto H. (eds.) *Instruments, Travel, and Science: Itineraries of Precision from the Seventeenth to the Twentieth Century.* Routledge Studies in the History of Science, Technology and Medicine. xi + 303 pp., illus., index. London: Routledge, 2002. ISBN 0-415-27295-5 (hc) \$110.00.

Grayson, Michael A. (ed.) *Measuring Mass: From Positive Rays to Proteins.* For the American Society for Mass Spectrometry. x + 149 pp., illus., figs., index. Philadelphia: Chemical Heritage Press, 2002. ISBN 0-941901-31-9 (hc) \$35.00.

Pyenson, Lewis; Gauvin, Jean-François (eds.) *The Art of Teaching Physics: The Eighteenth-Century Demonstration Apparatus of Jean Antone Nollet.* xviii + 221 pp., illus., bibl., index. Sillery, Québec: Septentrion, 2002. ISBN 2-89448-320-1 (hc) CDN\$54.95.

■ HISTORY OF TECHNOLOGY

Broelmann, Jobst. *Intuition und Wissenschaft in der Kreiseltechnik.* 435 pp. Munich: Deutsches Museum, 2002. ISBN 3-924183-87-2.

Burks, Alice Rowe. *Who Invented the Computer? The Legal Battle that Changed Computing History.* Foreword by **Douglas R. Hofstadter.** 432 pp., illus. Amherst, NY: Prometheus Books, 2002. ISBN 1-59102-034-4 (hc) \$35.00.

Crosby, Alfred W. *Throwing Fire: Projectile Technology through History.* xii + 206 pp., illus., index. New York: Cambridge University Press, 2002. ISBN 0-521-79158-8.

Dyson, George. *Project Orion: The True Story of the Atomic Spaceship.* xv + 345 pp., illus., bibl., index. New York: Henry Holt, 2002. ISBN 0805059857.

Gleick, James. *What Just Happened. A Chronicle from the Information Frontier.* xx + 310 pp. New York: Pantheon Books, 2002. ISBN 0-375-42177-7 (hc) \$24.00.

Grayson, Michael A. (ed.) *Measuring Mass: From Positive Rays to Proteins.* x + 149 pp., illus., figs., index. Philadelphia: Chemical Heritage Press, 2002. ISBN 0941901319 (hc) \$35.00.

Hentschel, Klaus. Mapping the Spectrum: Techniques of Visual Representation in Research and Teaching. xiv + 562 pp., illus., gigs., tables, apps., bibl., indexes. Oxford and New York: Oxford University Press, 2002. ISBN 0198509537 (hc) \$125.00.

Heppenheimer, T. A. History of the Space Shuttle. Vol. 1, The Space Shuttle Decision, 1965-1972. xiv + 470 pp., illus., bibl., index. Washington, D.C.: Smithsonian Institution Press, 2002. ISBN 1588340147 (hc).

Heppenheimer, T. A. History of the Space Shuttle. Vol. 2, Development of the Shuttle, 1972-1981. xxvi + 478 pp., illus., maps. Washington, D.C.: Smithsonian Institution Press, 2002. ISBN 1588340090.

Reed, R. Dale; Lister, Darlene. Wingless Flight: The Lifting Body Story. Foreword by **Chuck Yeager**. xxvi + 226 pp., illus., bibl., index. Lexington, KY: University of Kentucky Press, 2002. ISBN 0813190266.

Reynolds, David West. Apollo: The Epic Journey to the Moon. 272 pp., illus., map, bibl., index. New York: Harcourt, 2002. ISBN 0151009643 (hc) \$35.00.

Trimble, William F. Jerome C. Hunsaker and the Rise of American Aeronautics. xi + 284 pp., illus., bibl., index. Washington, D.C.: Smithsonian Institution Press, 2002. ISBN 158834066 (hc) \$39.95.

Zygmunt, Jeffrey. Microchip: An Idea, Its Genesis, and the Revolution It Created. 256 pp. Perseus Publishing, 2002. ISBN 0-7382-0561-3 (hc) \$25.00.

■ COLLECTED BIOGRAPHIES (3 or more Scientists)

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