
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 the Niels Bohr Library.

This list is the ninth 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.

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

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■ PHILOSOPHY OF SCIENCE

Achterhuis, Hans. *American Philosophy of Technology: The Empirical Turn.* Translated by **Robert P. Crease** (Indiana Series in the Philosophy of Technology). 187 pp., index. Bloomington: Indiana University Press, 2001. ISBN 0-253-33903-0 (hc) \$49.95.

Herbert, Christopher. *Victorian Relativity: Radical Thought and Scientific Discovery.* xvi + 302 pp., bibl., index. Chicago, London: University of Chicago Press, 2001. ISBN 0-226-32733-7 (pb) \$16.00.

Kassler, Jamie C. *Music, Science, Philosophy: Models in the Universe of Thought.* xvi + 318 pp., figs., illus., index. Burlington: Ashgate, 2001. ISBN 0-86078-862-8 (hc) \$105.95.

Kirschenmann, Peter P. *Science, Nature and Ethics: Critical Philosophical Studies.* xxii + 199 pp., illus., bibl. Oude Delft: Eburon, 2001. DFL.55

Klein, Ursula (ed.) *Tools and Modes of representation in the Laboratory Sciences.* (Boston Studies in the Philosophy of Science.) xv + 259 pp., illus., index. Dordrecht, Boston, London: Kluwer Academic Publishers, 2001. ISBN 1-4020-0100-2 (hc) \$89.00.

Lefevre, Wolfgang. *Between Leibniz, Newton, and Kant: Philosophy and Science in the Eighteenth Century.* Edited by **Wolfgang Lefevre** (Boston Studies in the Philosophy of Science, 220). xvi + 304 pp., notes, apps. Dordrecht: Kluwer Academic Publishers, 2001. ISBN 0-792-37198-4 (hc) \$94.00.

Machamer, Peter; Silberstein, Michael. *The Blackwell Guide to the Philosophy of Science.* Blackwell Philosophy Guides. v + 347 pp., index. Malden: Blackwell Publishing, 2002. ISBN 631221085 (pb) \$34.95.

Mitcham, Carl (ed.) *Metaphysics, Epistemology and Technology.* (Research in Philosophy and Technology, Vol. 19.) 364 pp., figs, index. Amsterdam: Elsevier Science, 2000. ISBN 0-7623-0681-5.

Von Dietze, Erich. *Paradigms Explained: Rethinking Thomas Kuhn's Philosophy of Science.* x + 182 pp., bibl., index. Westport: Greenwood Publishing, 2001. ISBN 0-275-96999-1 (hc) \$64.00.

■ SCIENCE AND SOCIETY

Becker, Peter; Clark, William. *Little Tools of Knowledge: Historical Essays on Academic and Bureaucratic Practices.* Social History, Popular Culture and Politics in Germany series. x + 322 pp., illus., epilogue, index. Ann Arbor: University of Michigan Press, 2001. ISBN 0-472-1108-6.

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

Cole, Simon A. *Suspect Identities: A History of Fingerprinting and Criminal Identification.* xii + 369 pp., illus., tables, index. Cambridge, Mass., London: Harvard University Press, 2001. (hc) \$35.00.

Denzler, Brenda. *The Lure of the Edge: Scientific Passions, Religious Beliefs, and the Pursuit of UFOs.* 335 pp., notes, bibl., index. Berkeley: University of California Press, 2001. ISBN 22432-9 (hc) \$35.00.

DuBois, Michel. *La Nouvelle Sociologie des Sciences.* vii + 256 pp., figs., tables. Paris: Presses Universitaires de France. 2001 (pb) Fr. 198.

Long, Pamela O. *Openness, Secrecy, Authorship: Technical Arts and the Culture of Knowledge from Antiquity to the Renaissance.* xii + 364 pp., illus., notes, bibl., index. Baltimore & London: The Johns Hopkins University Press, 2001. ISBN 0-8018-6606-5 (hc) \$48.00.

Nakayama, Shigeru. *A Social History of Science and Technology in Contemporary Japan. Volume 1, The Occupation Period 1945-1952.* x + 632 pp., figs., bibl., index. Australia: Trans Pacific Press Pty Ltd, 2001. ISBN 1-876-843-10-1.

Szöllösi-Janze, Margit (ed.) *Science in the Third Reich.* (German Historical Perspectives, 12.) viii + 289 pp., illus., tables, index. Oxford and New York: Berg, 2001. (pb) \$23.00.

Vardals, John N. *The Computer Revolution in Canada: Building National Technological Competence.* Edited by **I. Bernard Cohen** and **William Aspray.** (History of Computing Series). 409 pp., notes, index. Cambridge: MIT Press, 2001. ISBN 0-262-22064-4 (hc) \$45.00.

Vucinich, Alexander. *Einstein and Soviet Ideology.* viii + 291 pp., refs., index. Stanford: Stanford University Press, 2001. ISBN 0-8047-4209-X (hc) \$60.00.

■ SCIENCE AND ART, ARCHITECTURE, AND MUSIC

Gage, John. *Color and Meaning: Art, Science, and Symbolism.* 320 pp., illus., index. Berkeley: University of California Press, 1999. ISBN 0-520-22039-0 (hc) \$55.00.

Hockney, David. *Secret Knowledge: Rediscovering the Lost Techniques of the Old Masters.* 296 pp. London: Thames and Hudson, 2001. ISBN 0-500-23785-9 (hc) 35.00 pounds. New York: Viking Studio, 2001. ISBN 0-670-03026-0 (hc) \$60.00.

Lee, Raymond L.; Fraser, Alistair B. *The Rainbow Bridge: Rainbows in Art, Myth, and Science.* 393 pp., illus., bibl., index. University Park: Penn State University Press, 2001. ISBN 0-271-01977-8 (hc) \$65.00.

Moore, Steven A. *Technology and Place: Sustainable Architecture and the Blueprint Team.* 272 pp., illus., figs., map, tables. Austin: University of Texas Press, 2001. ISBN 0-292-75244-X (hc); ISBN 0-292-75254-8 (pb).

Shapiro, Jerome F. *Atomic Bomb Cinema: The Apocalyptic Imagination on Film.* ix + 384 pp., illus., filmography, index. New York: Routledge, 2001. ISBN 0-415-93659-4 (pb) \$24.95.

■ SCIENCE AND THE MILITARY; ATOMIC WEAPONS

Balmer, Brian. *Britain and Biological Warfare: Expert Advice and Science Policy, 1930-65.* 246 pp., notes, bibl., index. New York: Palgrave, 2001. ISBN 0-333-75430-1 (hc) \$75.00.

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.

Moy, Timothy. *War Machines: Transforming Technologies in the U.S. Military, 1920-1940.* xiv + 218 pp., illus., bibl., index. College Station: Texas A&M University Press, 2001. \$39.95.

Podvig, Pavel. *Russian Strategic Nuclear Forces.* Foreword by Frank Von Hippel. x + 693 pp., illus., figs., tables, notes, index. Cambridge: MIT Press, 2001. ISBN 0-262-16202-4 (hc) \$45.00.

Russell, Edmund. *War and Nature: Fighting Humans and Insects With Chemicals from World War I to Silent Spring.* xx + 315 pp., illus., index. Cambridge and New York: Cambridge University Press, 2001. ISBN 0-521-079003-4 (hc) \$54.95; ISBN 0-521-79937-4 (pb) \$19.95.

Schaaf, Michael. *Heisenberg, Hitler und die Bombe: Gespräche mit Zeitzeugen.* 148 pp., frontis., illus., document app. Berlin/Diepholz: GNT, 2001. ISBN 3-928186-60-4 (pb) EU22.50.

Williams, Kathleen Broome. *Improbable Warriors: Women Scientists and the U.S. Navy in World War II.* xvii + 304 pp., notes, bibl., index. Annapolis: Naval Institute Press, 2001. ISBN 1-55750-961-1 (hc) \$34.95.

■ SCIENCE & TECHNOLOGY - ENERGY, EFFECTS ON ENVIRONMENT

Elder, Donald C.; Rothmund, Christophe, (Eds.). *History of Rocketry and Astronautics: Proceedings of the Twenty-Eighth and Twenty-Ninth History Symposia of the International Academy of Astronautics.* xiv + 552 pp., illus., figs., tables, apps., bibl., index. San Diego, CA: American Astronautical Society, 2001. ISBN: 0-877-03477-X (hc); \$85.00. ISBN: 0-877-03478-8 (pb) \$60.00.

Geschwind, Carl-Henry. *California Earthquakes: Science, Risk & the Politics of Hazard Mitigation.* x + 337 pp., fig., notes, index. Baltimore & London: The Johns Hopkins University Press, 2001. ISBN 0-8018-6596-4 (hc) \$45.00.

Goldenber, José (ed.) *World Energy Assessment: Energy and the Challenge of Sustainability.* 528 pp. New York: United Nations Development Programme, United Nations Department of Economic and Social Affairs, and World Energy Council, 2001. ISBN 92-1-126126-0 (pb) \$65.00.

Harris, Gary L. *The Origins and Technology of the Advanced Extravehicular Space Suit.* AAS History Series, Volume 24. 558 pp., illus., figs., table, notes, index. San Diego: Univelt Inc., 2001. ISBN 0-87703-482-6 (hc) \$85.00.

Lomborg, Bjørn. *The Skeptical Environmentalist: Measuring the Real State of the World.* 539 pp. Cambridge: Cambridge University Press, 2001. ISBN 0-521-80447-7 (hc) \$69.95; ISBN 0-521-01068-3 (pb) \$27.95.

Mogren, Eric W. *Warm Sands: Uranium Mill Tailings Policy in the Atomic West.* x + 241 pp., illus., notes, bibl., index. Albuquerque: University of New Mexico Press, 2002. ISBN 0-8263-2280-8 (hc) \$34.95.

■ SCIENCE & GOVERNMENT; PUBLIC POLICY

Brown, James Robert. *Who Rules in Science: An Opinionated Guide to the Wars.* xi + 236 pp., figs., notes, bibl., index. Cambridge, MA & London: Harvard University Press, 2001. ISBN 0-674-00652-6 (hc) \$26.00.

Greenberg, Daniel S. *Science, Money, and Politics: Political Triumph and Ethical Thought.* x + 530 pp., app., bibl., index. Chicago & London: The University of Chicago Press, 2001. ISBN 0-226-30634-8 (hc) \$35.00.

Laird, Frank N. *Solar Energy, Technology Policy, and Institutional Values.* xviii + 248 pp., illus., index. Cambridge and New York: Cambridge University Press, 2001. ISBN 0-521-78247-3 (hc) \$54.95.

McGrath, Patrick J. *Scientists, Business, & the State, 1890-1960.* x + 248 pp., notes, bibl., index. Chapel Hill: University of North Carolina Press, 2002. ISBN 0-8078-2655-3 (hc) \$39.95.

Polenberg, Richard. *In the Matter of J. Robert Oppenheimer: The Security Clearance Hearing.* xxxii + 409 pp., illus., index. Ithaca: Cornell University Press, 2001. ISBN 0-8014-8661-0 (pb) \$19.95.

Vucinich, Alexander. *Einstein and Soviet Ideology.* viii + 291 pp., notes, gloss., refs., index. Stanford, CA: Stanford University Press, 2001. ISBN 0-8047-4209-x (hc) \$60.00.

■ INSTITUTIONAL DEVELOPMENT OF SCIENCE

Dyer, Davis; Gross, Daniel. *The Generations of Corning: The Life and Times of a Global Corporation.* Foreword by **James R. Houghton.** xx + 508 pp., illus., index. Oxford and New York: Oxford University Press, 2001. ISBN: 0-19-514095-8. (hc) 18.99 English pounds.

■ HISTORY OF SCIENCE

Ball, Philip. *Stories of the Invisible: A Guided Tour of Molecules.* 204 pp., illus., figs., notes, index. New York: Oxford University Press, 2001. ISBN 0-19-280214-3 (hc) \$22.50.

Danielson, Dennis Richard. *The Book of the Cosmos: Imagining the Universe from Heraclitus to Hawking.* xxxiii + 592 pp., glossary, index. Cambridge: Perseus Publishing, 2001. ISBN 0-7382-0498-6 (pb) \$20.00.

Herbert, Christopher. *Victorian Relativity: Radical Thought and Scientific Discovery.* xvi + 302 pp., bibl., index. Chicago & London: The University of Chicago Press, 2001. ISBN 0-226-32732-9 (hc) \$43.00; ISBN 0-226-32733-7 (pb) \$16.00.

Johnston, Sean F. *History of Light and Colour Measurements: Science in the Shadows.* ix-xi + 281 pp., illus., figs., table, bibl., index. Bristol: Institute of Physics Publishing, 2001. ISBN 0-7503-0754-4 (hc) \$75.00.

Kitcher, Philip. *Science, Truth, and Democracy.* xiii + 256 pp., afterword, index. Oxford: Oxford University Press, 2001. ISBN 0-19-514583-6 (hc) \$27.50.

Labinger, Jay A.; Collins, Harry (Eds.) *The One Culture? A Conversation About Science.* xi + 329 pp., refs., index. Chicago & London: University of Chicago Press. 2001. ISBN 0-226-46723-6 (pb) \$18.00; ISBN 0-226-46722-8 (hc) \$65.00.

Lederman, Leon; Scheppler, Judith. *Portraits of Great American Scientists.* Edited by **Leon M. Lederman.** 300 pp., illus., notes, bibl. Amherst: Prometheus Books, 2001. ISBN 1-57392-932-8 (hc) \$28.00.

Mandelbrote, Scott. *Footprints of the Lion: Isaac Newton at Work.* 142 pp., color illus. Cambridge: Cambridge University Library, 2001. ISBN 0-902205-58-7.

Newman, William R.; Grafton, Anthony (Eds.) *Secrets of Nature: Astrology and Alchemy in Early Modern Europe.* 443 pp., frontisp., index. Cambridge, MA & London: The MIT Press, 2002. ISBN 0-262-14075-6 (hc) \$50.00.

Oster, Malcolm. *Science in Europe, 1500-1800: A Secondary Sources Reader.* (Volumes are part of an Open University course, *The Rise of Scientific Europe, 1500-1800.*) xii + 307 pp., index. Great Britain: Open University, 2001. ISBN 0-333-97006-3 (pb) \$14.99.

Peat, F. David. *From Certainty to Uncertainty: The Story of Science and Ideas in the Twentieth Century.* 248 pp. Washington, DC: Joseph Henry (National Academy Press), 2002. ISBN 0-309-07641-2 (hc) \$24.95.

Piel, Gerald. *The Age of Science: What Scientists Learned in the Twentieth Century.* xx + 460 pp., illus., notes, index. Boulder, CO: Perseus Books Group, 2001. ISBN 0-465-05755-1 (hc) \$40.00.

Rothenberg, Marc (ed.) *The History of Science in the United States*. xx + 615 pp., index. New York & London: Garland Publishing Co., 2001. ISBN 0-8153-0762-4 (hc) \$150.00.

Sachs, Joe. *Aristotle's On the Soul and On Memory and Recollection*. 211 pp., gloss., bibl., index. Santa Fe: Green Lion Press, 2001. ISBN 1-888009-16-0 (hc) \$32.00.

Weinberg, Steven. *Facing UP: Science and Its Cultural Adversaries*. xi + 283 pp., frontisp., index. Cambridge, MA & London: Harvard University Press, 2001. ISBN 0-674-00674-x (hc) \$26.00.

Whewell, William. *Of the Plurality of Worlds*. Edited and with New Introductory Material by **Michael Ruse**. v + 510 pp. First ed. 1853. Chicago & London: The University of Chicago Press, 2001. ISBN 0-226-89435-5 (hc); ISBN 0-226-89436-3 (pb) \$20.00.

■ HISTORY OF PHYSICS

Barbour, Julian. *The End of Time: The Next Revolution in Physics*. 384 pp., illus., figs., notes, bibl., index. New York: Oxford University Press, 2001. ISBN 0-19-514592-5 (pb) \$16.95.

Breidbach, Olaf; Ziche, Paul (Eds.) *Naturwissenschaften um 1800: Wissenschaftskultur in Jena-Weimar*. 296 pp., frontisp., illus., tables, bibl. index. Weimar: Verlag Hermann Böhlau Nachfolger, 2001. ISBN 3-7400-1177-7 (hc) EU 39.90.

Bromley, D. Allan. *A Century of Physics*. x + 110 pp., illus. New York: Springer, 2002. ISBN 0-387-95247-0 (hc) \$59.95.

Chown, Marcus. *The Magic Furnace: The Search for the Origins of Atoms*. 232 pp., bibl., index. Oxford: Oxford University Press, 2001. ISBN 0-19-514305-1 (hc) \$27.50.

Chown, Marcus. *The Universe Next Door: The Making of Tomorrow's Science*. xii + 191 pp., index. Oxford: Oxford University Press, 2002. ISBN 0-19-514382-5 (hc) \$26.00.

Clarke, Bruce. *Energy Forms: Allegory and Science in the Era of Classical Thermodynamics*. x + 278 pp., illus., notes, bibl., index. Ann Arbor: The University of Michigan Press, 2002. ISBN 0-472-11174-4 (hc) \$59.50.

Cropper, William H. *Great Physicists: The Life and Times of Leading Physicists from Galileo to Hawking*. xii + 480 pp., illus., figs., index. London: Oxford University Press, 2001. ISBN 0-19-513748-5 (hc) \$35.00.

Dahl, Per F. *From Nuclear Transmutation to Nuclear Fission, 1932-1939*. xii + 304 pp., illus., figs., notes, bibl., name index, subject index. Bristol and Philadelphia: Institute of Physics Publishing, 2002. ISBN 0 7503 0865 6 (hc) \$75.00.

Franklin, Alan. *Are There Really Neutrinos? An Evidential History*. xii + 371 pp., illus., refs., index. Cambridge, MA: Perseus Books, 2001. ISBN 0-7382-0265-7 (hc) \$40.00.

Genz, Henning. *Nothingness: The Science of Empty Space*. 352 pp., illus., figs., bibl., index. Cambridge: Perseus Publishing, 2002. ISBN 0-7382-0610-5 (pb) \$25.00.

Gondhalekar, Prabhakar. *The Grip of Gravity: The Quest to Understand the Laws of Motion and Gravitation*. x + 368 pp., figs., notes, index. Cambridge: Cambridge University Press, 2001. ISBN 0-521-80316-0 (hc) \$27.95.

Kane, Gordon. *Supersymmetry: Squarks, Photons, and the Unveiling of the Ultimate Laws of Nature*. Foreword by **Edward Witten**. xx + 199 pp., illus., figs., apps., index. Cambridge, Mass.: Helix Books; Cambridge Mass.: Perseus Publishing, 2000. (pb) \$16.00.

Luthy, Christoph; Murdoch, John E.; Newman, William R. *Late Medieval and Early Modern Corpuscular Matter Theories. Medieval and Early Modern Science, vol. 1*. viii + 610 pp., bibl., index. New York: Brill Academic Publishing, 2001. ISBN 9004115161.

Malin, Shimon. *Nature Loves to Hide: Quantum Physics and Reality, A Western Perspective*. xv + 288 pp., apps., notes, bibl., index. Oxford: Oxford University Press, 2001. ISBN 0-19-513894-5 (hc) \$30.00.

Smolin, Lee. *Three Roads to Quantum Gravity*. viii + 231 pp., figs., index. New York: Basic Books, 2001. ISBN 0-465-07835-4 (hc) \$24.00.

Rigden, John S. *Hydrogen: The Essential Element*. 280 pp. illus., bibl., index. Cambridge, MA: Harvard University Press, 2002. ISBN: 0-6740-0738-7 (hc) \$28.00.

Treder, Hans-Jürgen. *The Einstein-Century of Physics: The First Quarter*. (Beiträge zur Geschichte der Geophysik und Kosmischen Physik.) 56 pp. Brehmen-Rönnebeck and Potsdam: Science Edition, 2001. (pb) \$25.00.

Wilson, Edmund. *An Introduction to Particle Accelerators.* xiv + 252 pp., illus., refs., index. Oxford: Oxford University Press, 2001. ISBN 0-19-852-054-9 (hc) \$45.00.

■ HISTORY OF ASTRONOMY, ASTROPHYSICS, COSMOLOGY, & SPACE SCIENCE

Beattie, Donald A. *Taking Science to the Moon: Lunar Experiments and the Apollo Program.* xv + 301 pp., illus., bibl., index. Baltimore & London: The Johns Hopkins University Press, 2001. ISBN 0-8018-6599-9 (hc) \$42.50.

Brashear, Ronald; Lewis, Daniel. *Star Trek: One Thousand Years of the Art and Science of Astronomy.* 168 pp., illus., index. San Marino: Huntington Library; Seattle & London: University of Washington Press, 2001. ISBN 0-295-98096 (hc) \$24.95.

DeVorkin, David. *Beyond Earth: Mapping the Universe.* 255 pp., large color illus., index. Washington, DC: National Geographic Society, 2002. ISBN 0-7922-6567-3 (hc) \$40.00.

Dickson, Paul. *Sputnik: The Shock of the Century.* 364 pp., illus., notes, bibl., index. New York: Walker & Company, 2001. ISBN 0-8027-1365-3 (pb) \$20.00.

Gorn, Michael H. *Expanding the Envelope: Flight Research at NACA and Nasa.* 512 pp., illus., notes, glossary, index. Lexington: University Press of Kentucky, 2001. ISBN 0-8131-2205-8 (hc) \$35.00.

Leverington, David. *New Cosmic Horizons: Space Astronomy From the V2 to the Hubble Space Telescope.* xii + 507 pp., frontis., illus., figs., tables, app., bibl., index. Cambridge and New York: Cambridge University Press, 2001. ISBN 0-521-65137-9 (hc) \$85.00; ISBN 0-521-65833-0 (pb) \$29.95.

Pecker, Jean-Claude. *Understanding the Heavens: Thirty Centuries of Astronomical Ideas from Ancient Thinking to Modern Cosmology.* xiii + 597 pp., illus., name index, subj. index. Berlin: Springer, 2001. ISBN 5-540-63198-4 (hc) \$89.95.

■ HISTORY OF EARTH SCIENCES

Bradford, Marlene. *Scanning the Skies: A History of Tornado Forecasting.* 256 pp., illus., tables, notes, bibl., index. Norman: University of Oklahoma Press, 2001. ISBN 0-8061-3302-3 (hc) \$24.95.

Burnett, D. Graham. *Masters of All They Surveyed: Exploration, Geography, and a British El Dorado.* xv + 298 pp., illus., bibl., index. Chicago & London: The University of Chicago Press, 2000. ISBN 0-226-08121-4 (pb) \$27.50. (Geography, cartography, and scientific exploration of the South American colony of Guyana.)

Cosgrove, Denis. *A Cartographic Genealogy of the Earth in the Western Imagination.* xiii + 331 pp., illus., index. Baltimore & London: The Johns Hopkins University Press, 2001. ISBN 0-8018-6491-7 (hc) \$46.50.

Jaco, Lucy. *The Northern Lights.* xv + 297 pp., illus., bibl., index. New York: Alfred A. Knopf, 2001. ISBN 0-375-40980-7 (hc) \$24.00.

Jankovic, Vladimir. *Reading the Skies: A Cultural History of English Weather, 1650-1820.* xiv + 272 pp., illus., app., notes, bibl., index. Chicago & London: The University of Chicago Press, 2000. ISBN 0-226-39216-3 (pb) \$20.00; ISBN 0-226-39215-5 (hc) \$55.00.

Knell, S.J.; Lewis, C.L.E. *The Age of the Earth: From 4004 BC to AD 2002.* Geological Society Special Publication No. 190. viii + 288 pp., figs., index. Bath: Geological Society Publishing House. ISBN 1-86239-093-2.

Officer, Charles; Page, Jake. *A Fabulous Kingdom: The Exploration of the Arctic.* xii + 240 pp., illus., figs., refs., index. Oxford: Oxford University Press, 2001. ISBN 0-19-512382-4 (hc) \$25.00.

Oreskes, Naomi (ed.) *Plate Tectonics: The Insider's History of the Modern Theory of the Earth. Seventeen Original Essays by the Scientists Who Made Earth History.* xxiv + 496 pp., illus., index. Westview Press, 2002. ISBN 0-8133-3981-2 (hc) \$35.00.

Petterssen, Sverre. *Weathering the Storm: Sverre Petterssen, the D-Day Forecast, and the Rise of Modern Meteorology.* Edited by **James Rodger Fleming.** (Historical Monograph Series.) xiv + 329 pp., frontis., illus., apps., index. Boston: American Meteorological Society, 2001.

Stock, Jurgen; Upgren, Arthur. *Weather: How it Works and Why it Matters.* 223 pp., illus., figs., tables, apps., bibl., index. Cambridge: Perseus Publishing, 2001. ISBN 0-7382-0521-4 (pb) \$18.00.

■ HISTORY OF MATHEMATICS

Berndt, Bruce; Rankin, Robert A. (Eds.) *Ramanujan: Essays and Surveys.* (History of Mathematics, Volume 22). 347 pp., illus., tables. Providence: American Mathematical Society, 2001. ISBN 0-8218-2624-7 (hc) \$79.00.

Hawkins, Thomas. Emergence of the Theory of Lie Groups: An Essay in the History of Mathematics, 1869-1926. xiii + 564 pp., illus., refs., index. New York: Springer, 2000. ISBN 0-387-98963-3 (hc) \$79.95.

Howell, Russell W.; Bradley, W. James (Eds.) Mathematics in a Postmodern Age: A Christian perspective. viii + 399 pp., figs., bibl., index. Grand Rapids, Mich. & Cambridge, England: William B. Eerdmans Publishing Co., 2001. (pb) \$28.00.

Siegmund-Schultze, Reinhard. **Rockefeller** and the Internationalization of Mathematics Between the Two World Wars. (Documents and Studies for the Social History of Mathematics in the 20th Century.) xiii + 341 pp., illus., append., name index, subject index. Basel, Boston, Berlin: Birkhauser Verlag, 2001. ISBN 4-7643-6468-8 (hc) \$60.00.

Tasic, Vladimir. Mathematics and the Roots of Postmodern Thought. 185 pp., index. New York: Oxford University Press, 2001. ISBN 0-195-13967-4 (hc) \$29.95

Yandell, Benjamin H. The Honors Class: Hilbert's Problems and Their Solvers. 496 pp. Natick, MA, A.K. Peters, 2002. ISBN 1-56881-141-1 (hc) \$39.00.

■ HISTORY OF INSTRUMENTS

Audoin, Claude; Bernard, Guinot. The Measurement of Time: Time, Frequency and the Atomic Clock. 346 pp., illus., tables, index. New York: Cambridge University Press, 2001. ISBN 0-521-00397-0 (hc) \$110.00.

Chen, Xiang. Instrumental Traditions and Theories of Light: The Uses of Instruments in the Optical Revolution. Science and Technology Series. xxiii + 211 pp., figs., illus., notes, bibl., index. Netherlands: Kluwer Academic Publishers. ISBN 792363493.

Crump, Thomas. A Brief History of Science: As Seen Through the Development of Scientific Instruments. 436 pp. Constable & Robinson, 2001. (hc) \$28.00.

Lewis, M.J.T. Surviving Instruments of Greece and Rome. xx + 389 pp., illus., figs., tables, apps., bibl., index. Cambridge and New York: Cambridge University Press, 2001. ISBN 0-521-79297-5 (hc) \$80.00.

■ HISTORY OF TECHNOLOGY

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