

ture and function of proteins by Pincus and including chapters by Sperelakis himself on diffusion and permeability and on resting membrane and Gibbs-Donnan equilibrium potentials. The second section, Transport Physiology, Pumps, and Exchangers, contains seven chapters, by Cuppoletti, Wallick, Edes and Kranias, Bridge, Baumgarten and Feher, and Putnam, the last of whom writes on both intracellular pH regulation and polarity of cell membranes. Ten chapters are then grouped under the heading Membrane Excitability and Ion Channels, with Sperelakis writing on cable properties and propagation of action potentials, electrogenesis of excitability, and regulation of ion channels by phosphorylation. Chapters on patch-clamp techniques, gap junctions, and the nuclear envelope are included here along with five on ion channels, and this section is followed by a further three chapters on ion channels as targets for toxins, drugs, and genetic diseases. Section 5 of the book is devoted to synaptic transmission and sensory transduction, with chapters by Westbrook, Suszkiw, Gallo-Payet and Payet, Morris, Behbehani, Zimmerman, Roper, and Misler, and in section 6 muscle and other contractile systems are dealt with by Sperelakis, Wahler, Hermsmeyer, Meissner, Paul, Kaneshiro, and Akers. Three chapters on bioluminescence, photosynthesis, and plant cell physiology (by Hastings, Fleischman, and Stout) conclude the coverage. Each chapter has its own bibliography, in which the authors have generally complied with the editor's request to limit entries to 40 or fewer "key papers and review-type articles," and the volume includes an appendix laying out some elementary principles of electricity relevant to cell membranes, as well as a subject index.

Katherine Livingston

Books Received

About Time. Einstein's Unfinished Revolution. Paul Davies. Simon and Schuster, New York, 1995. 316 pp., illus. \$24.

AIDS and Chinese Medicine. Qingcai Zhang and Hong-yen Hsu. Edited by Heidi Ziolkowski. Keats, New Canaan, CT, and Oriental Healing Arts Institute, Long Beach, CA, 1994. xxiv, 242 pp. Paper, \$14.95. Reprint, 1990 edition.

Baculovirus Expression Protocols. Christopher D. Richardson, Ed. Humana, Totowa, NJ, 1995. xiv, 418 pp., Paper, \$64.50. Methods in Molecular Biology, vol. 39.

Biotic Feedbacks in the Global Climatic System. Will the Warming Feed the Warming? George M. Woodwell and Fred T. Mackenzie, Eds. Oxford University Press, New York, 1995. xvi, 416 pp., illus., plates. \$65. Based on a meeting, Woods Hole, MA, Oct. 1992.

Cancer Wars. How Politics Shapes What We Know and Don't Know About Cancer. Robert N. Proctor. BasicBooks, New York, 1995. xii, 356 pp., illus. \$25 or \$C35.

Conservation. Replacing Quantity with Quality as a Goal for Global Management. Carl F. Jordan. Wiley, New

York, 1995. xvi, 340 pp., illus., + plates. \$61.95.

The CD-ROM and Optical Disc Recording Systems. E. W. Williams. Oxford University Press, New York, 1994. x, 166 pp., illus. \$42.50. Textbooks in Electrical and Electronic Engineering, 2.

Darwinism Evolving. Systems Dynamics and the Genealogy of Natural Selection. David J. Depew and Bruce H. Weber. MIT Press, Cambridge, MA, 1994. xiv, 588 pp., illus. \$49.95.

Deadly Scholarship. The True Story of Lu Gang and Mass Murder in America's Heartland. Edwin Chen. Birch Lane (Carol), New York, 1995. xviii, 202 pp., + plates. \$19.95. An account of the 1991 shootings in the University of Iowa physics department.

Dialogues on Perception. Bela Julesz. MIT Press, Cambridge, MA, 1994. xxii, 276 pp., illus. \$49.95.

Earth's First Steps. Tracking Life Before the Dinosaurs. Jerry MacDonald. Johnson Books, Boulder, CO, 1994. xiv, 290 pp., illus. \$22.95.

Ectoparasites of Animals and Control Methods. Office International des Epizooties, Paris, 1994. 472 pp., illus. \$46 or FrF 250. Revue Scientifique et Technique, vol. 13, no. 4.

Eddington's Search for a Fundamental Theory. A Key to the Universe. C. W. Kilmister. Cambridge University Press, New York, 1995. xii, 256 pp., illus. \$59.95.

The Farthest Things in the Universe. Jay M. Pasachoff et al. Cambridge University Press, New York, 1995. x, 104 pp., illus. \$29.95; paper, \$19.95.

Femtosecond Chemistry. Jörn Manz and Ludger Wöste, Eds. VCH, New York, 1995. Vol. 1, xxiv, 394 pp., illus. Vol. 2, xxiv, 522 pp., illus. The set, \$205.

A Field Manual for the Amateur Geologist. Tools and Activities for Exploring Our Planet. 2nd ed. Alan M. Cavanaugh. Wiley, New York, 1995. x, 335 pp., illus. Paper, \$14.95.

Gaseous Dielectrics VII. Loucas G. Christophorou and David R. James, Eds. Plenum, New York, 1994. xiv, 701 pp., illus. \$149.50. From a symposium, Knoxville, TN, April 1994.

Genetic Variation and Human Disease. Principles and Evolutionary Approaches. Kenneth M. Weiss. Cambridge University Press, New York, 1995. xxiv, 354 pp., illus. Paper, \$24.95. Cambridge Studies in Biological Anthropology.

The Geology of Switzerland. An Introduction to Tectonic Facies. Kenneth J. Hsü. Princeton University Press, Princeton, NJ, 1995. xxvi, 250 pp., illus. \$55 or £40.

Handbook of Laboratory Health and Safety. R. Scott Strickoff and Douglas B. Walters. 2nd ed. Wiley, New York, 1995. xviii, 462 pp., illus. \$69.95.

The Haptophyte Algae. J. C. Green and B. S. C. Leadbeater, Eds. Clarendon (Oxford University Press), New York, 1994. xii, 446 pp., illus. \$132. Systematics Association Special Volume no. 51.

Hard Evidence. How Detectives Inside the FBI's Sci-Crime Lab Have Helped Solve America's Toughest Cases. David Fisher. Simon and Schuster, New York, 1995. 317 pp. \$23 or £C31.

Improving the Quality of Life. Recommendations for People with and without Disabilities. David M. Romney, Roy I. Brown, and Prem S. Fry, Eds. Kluwer, Norwell, MA, 1994. iv, 272 pp. \$79 or £49 or Dfl. 120. Reprinted from *Social Indicators Research*, vol. 33, nos. 1-3 (1994).

In Search of the Neanderthals. Solving the Puzzle of Human Origins. Christopher Stringer and Clive Gamble. Thames and Hudson, New York, 1995 (distributor, Norton, New York). 247 pp., illus., + plates. Paper, \$18.95. Reprint, 1993 edition.

The King of the World in the Land of the Pygmies. Joan Mark. University of Nebraska Press, Lincoln, 1995. xvi, 276 pp., illus. \$30. An account of Patrick Putnam's years in the Belgian Congo, including the early work of Colin Turnbull.

Lactoferrin. Structure and Function. T. William Hutchens, Sylvia V. Rumball, and Bo Lönnnerdal, Eds. Plenum, New York, 1994. xii, 298 pp., illus. \$82.50. Advances in Experimental Medicine and Biology, vol. 357. From a workshop, Honolulu, HI, Sept. 1992.

Laser Light Scattering. Charles S. Johnson, Jr., and Don A. Gabriel. Dover, New York, 1994. iv, 96 pp., illus. Paper, \$6.95. Reprint, 1981 edition.

Launchpad for the 21st Century. Yearbook of the International Space Year. Harvey Meyerson and Danella K. Simonelli. American Astronautical Society, San Diego,

CA, 1995 (distributor, Univelt, San Diego, CA). xii, 399 pp. \$70; paper, \$50. Special Supplement to *Advances in the Astronautical Sciences*. Reprint, 1993 edition.

Machine Intelligence and Inductive Learning. K. Furukawa, D. Michie, and S. Muggleton, Eds. Clarendon (Oxford University Press), New York, 1994. x, 478 pp., illus. \$90. Machine Intelligence, 13.

Malignant Hyperthermia. A Genetic Membrane Disease. S. Tsuyoshi Ohnishi and Tomoko Ohnishi, Eds. CRC Press, Boca Raton, FL, 1994. xviii, 331 pp., illus. \$156. CRC Series in Membrane-Linked Diseases.

The Nature of Emotion. Fundamental Questions. Paul Ekman and Richard J. Davidson, Eds. Oxford University Press, New York, 1994. xiv, 496 pp. Paper, \$24.95. Series in Affective Science.

Of One Mind. The Collectivization of Science. John Ziman. ALP Press, Woodbury, NY, 1995. xviii, 407 pp., illus. \$29.95. Masters of Modern Physics.

Packed Towers in Processing and Environmental Technology. Reinhard Billet. VCH, New York, 1995. xvi, 382 pp., illus. \$135. Translated by James W. Fullarton.

The Psychopathology of Language and Cognition. Robert W. Rieber and Harold J. Vetter. Plenum, New York, 1995. xiv, 198 pp., illus. \$45. Cognition and Language.

The Quaternary History of Scandinavia. Joakim Donner. Cambridge University Press, New York, 1995. viii, 200 pp., illus. \$99.95.

Radiation Hazards to Fish, Wildlife, and Invertebrates. A Synoptic Review. Ronald Eisler. National Biological Service, U.S. Department of the Interior, Washington, DC, 1994 (distributor, National Technical Information Service, Springfield, VA). iv, 124 pp., illus. Paper. Biological Report 26. Contaminant Hazard Reviews Report 29.

Radiation Science and Societal Decision Making. Leonard A. Sagan, Ed. National Council on Radiation Protection and Measurements, Bethesda, MD, 1994. iv, 329 pp., illus. Paper, \$40. Proceedings no. 15. From a meeting, Arlington, VA, April 1993.

Scholarly Publishing on the Electronic Networks. Filling the Pipeline and Paying the Piper. Ann Okerson, Ed. Office of Scientific and Academic Publishing, Association of Research Libraries, Washington, DC, 1995. viii, 261 pp., illus. Paper, \$27. From a symposium, Washington, DC, and Charlottesville, VA, Nov. 1994.

The Science and Engineering of Thermal Spray Coatings. Lech Pawlowski. Wiley, New York, 1995. xviii, 414 pp., illus. \$95.95.

Taking Care. The Legacy of Soma Weiss, Eugene Stead, and Paul Beeson. William Hollingsworth. Medical Education and Research Foundation, San Diego, CA, 1994. iv, 331 pp., illus. Paper, \$16.

Teachers of My Youth. An American Jewish Experience. Israel Scheffler. Kluwer, Norwell, MA, 1994. vi, 207 pp., illus. \$96. Philosophy and Education, vol. 5.

Understanding Ageing. Robin Holliday. Cambridge University Press, New York, 1995. xiv, 207 pp., illus. Paper, \$24.95. Developmental and Cell Biology Series.

Understanding and Controlling the German Cockroach. Michael K. Rust, John M. Owens, and Donald A. Reiser, Eds. Oxford University Press, New York, 1995. xviii, 430 pp., illus. \$85.

The Values of Precision. M. Norton Wise, Ed. Princeton University Press, Princeton, NJ, 1994. viii, 372 pp., illus. \$49.50 or £35.

Vascular Plants of Russia and Adjacent States (the Former USSR). S. K. Czerepanov. Cambridge University Press, New York, 1995. x, 516 pp. \$100. Revised edition of Russian edition (1981).

The Weed Flora of Egypt. Loutfy Boulos and M. Nabil El-Hadidi. 2nd ed. American University in Cairo Press, Cairo, Egypt, 1995. Columbia University Press, New York. xxvi, 361 pp., illus. \$40 or £30.

What Is Protected in a Computer Program? Copyright Protection in the United States and Europe. Josef Drexler. Max Planck Institute for Foreign and International Patent, Copyright, and Competition Law, Munich, 1994 (U.S. distributor, VCH, New York). xvi, 124 pp., illus. Paper, \$60. IIC Studies, vol. 15.

X-Ray Spectrometry in Electron Beam Instruments. David B. Williams, Joseph I. Goldstein, and Dale E. Newbury, Eds. Plenum, New York, 1995. xviii, 372 pp., illus. \$79.50. From a symposium, Los Angeles, CA, 1993.