

formity in the terminology of the field has suffered from a long-standing lack of consensus as to whether or not sound can be considered to have the attributes of an object.

Although cognitive, hearing, and speech scientists all have an interest in the topic of auditory cognition, this book will probably appeal most to cognitive psychologists. For full appreciation of all the material, it is helpful to have a reasonably good command of music notation and theory. However, even those without musical experience will find this a useful book for broadening their view of human cognition.

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## Books Received

**Applied Algebra and Functional Analysis.** Anthony N. Michel and Charles J. Herget. Dover, New York, 1993. x, 484 pp., illus. Paper, \$10.95. Revised reprint of *Mathematical Foundations in Engineering and Science. Algebra and Analysis*.

**The Architecture of Arroyo Hondo Pueblo, New Mexico.** Winifred Creamer. School of American Research Press, Santa Fe, NM, 1993. xviii, 219 pp., illus., + map. Paper, \$30. Arroyo Hondo Archaeological Series, vol. 7.

**The Birth of the Universe.** The Big Bang and Beyond. Trinh Xuan Thuan. Abrams, New York, 1993. 160 pp., illus. Paper, \$12.95. Discoveries. Translated from the French edition (1992).

**The Book of Life.** Stephen Jay Gould, Ed. Norton, New York, 1993. 256 pp., illus. \$40.

**The Box of Stars.** A Practical Guide to the Night Sky and to Its Myths and Legends. Catherine Tennant. Bulfinch (Little Brown), Boston, 1993. vi, 87 pp. + loose plates and maps, boxed. \$24.95.

**Cosmic Questions.** Galactic Halos, Cold Dark Matter and the End of Time. Richard Morris. Wiley, New York, 1993. vi, 200 pp., illus. \$24.95.

**The Cruciferae of Continental North America.** Systematics of the Mustard Family from the Arctic to Panama. Reed C. Rollins. Stanford University Press, Stanford, CA, 1993. xviii, 976 pp., illus. \$125.

**Cyclitols and Their Derivatives.** A Handbook of Physical, Spectral, and Synthetic Data. Tomas Hudlicky and Mary Cebulak. VCH, New York, 1993. viii, 315 pp., illus. \$85.

**Erythropoietin.** Molecular Physiology and Clinical Applications. C. Bauer *et al.*, Eds. Dekker, New York, 1993. x, 472 pp., illus. \$99.75.

**The Evolution of Geomorphology.** A Nation-by-Nation Summary of Development. H. J. Walker and W. E. Grabau, Eds. Wiley, New York, 1993. xvi, 539 pp., illus. \$180. International Association of Geomorphologists, publication no. 1.

**Experimental Techniques in Fracture.** Jonathan S. Epstein, Ed. Society for Experimental Mechanics, Bethel, CT, and VCH, New York, 1993. xii, 514 pp., illus. \$125.

**Fluid and Solute Transport in the Airspaces of the Lungs.** Richard M. Effros and H. K. Chang, Eds. Dekker, New York, 1993. xviii, 539 pp., illus. \$165. Lung Biology in Health and Disease, 70.

**Foundations of Neuroscience.** Marcus Jacobson. Plenum, New York, 1993. xii, 387 pp., illus. \$79.50.

**From So Simple a Beginning.** The Book of Evolution. Philip Whitfield. Macmillan, New York, 1993. 220 pp., illus. \$40.

**Global Marine Biological Diversity.** A Strategy

for Building Conservation into Decision Making. Elliott A. Norse, Ed. Island Press, Washington, DC, 1993. xxxii, 383 pp., illus. \$50; paper, \$27.50.

**Global 2000 Revisited.** What Shall We Do? Gerald O. Barney with Jane Blewett and Kristen R. Barney. Millennium Institute, Arlington, VA, 1993 (distributor, Public Interest, Arlington, VA). xvi, 105 pp., illus. Paper, \$20.

**A Guide to the Practice of Paediatric Endocrinology.** C. G. D. Brook. Cambridge University Press, New York, 1993. x, 181 pp., illus. \$49.95.

**Hellenistic Science and Culture in the Last Three Centuries B.C.** George Sarton. Dover, New York, 1993. xxvi, 554 pp., illus. Paper, \$13.95. Reprint, 1970 ed.

**History and Atlas of the Fishes of the Antarctic Ocean.** Richard Gordon Miller. Foresta Institute of Ocean and Mountain Studies, Tucson, AZ, 1993. xx, 792 pp., illus. \$95; paper, \$78.

**Hormonally Induced Changes in Mind and Brain.** Jay Schulkin, Ed. Academic, San Diego, CA, 1993. xxii, 407 pp., illus. \$64.95.

**An Introduction to Photonic Switching Fabrics.** H. Scott Hinton. Plenum, New York, 1993. xiv, 525 pp., illus. \$85. Applications of Communications Theory.

**Introduction to the Theory of Laser-Atom Interactions.** Marvin H. Mittleman. 2nd ed. Plenum, New York, 1993. xii, 313 pp., illus. \$59.50. Physics of Atoms and Molecules.

**Ionic Polymerization and Living Polymers.** Michael Szwarc and Marcel Van Beylen. Chapman and Hall, New York, 1993. x, 380 pp., illus. \$74.50.

**Living with Nuclei: 50 Years in the Nuclear Age.** Memoirs of a Japanese Physicist. Motoharu Kimura with John M. Carpenter. Published by the author, 3-13-20 Mukaiyama, Taihaku-ku, Sendai 982, Japan, 1993 (distributor, John M. Carpenter, PO Box 3003, Naperville, IL). xxii, 261 pp., illus. Paper, \$15. Translated from the Japanese edition (Tokyo, 1990).

**Local Area Network Interconnection.** Raif O. Onvural and Arne Nilsson, Eds. Plenum, New York, 1993. x, 358 pp., illus. \$89.50. From a conference, Research Triangle Park, NC, Oct. 1993.

**Macrophage-Pathogen Interactions.** Bruce S. Zwilling and Toby K. Eisenstein, Eds. Dekker, New York, 1993. xxii, 634 pp., illus. \$185. Immunology Series, 60.

**Metacognition.** Core Readings. Thomas O. Nelson, Ed. Allyn and Bacon, Needham Heights, MA, 1993. xii, 436 pp., illus. \$48.

**Methanogenesis.** Ecology, Physiology, Biochem-

istry and Genetics. James G. Ferry, Ed. Chapman and Hall, New York, 1993. x, 536 pp., illus. \$75. Chapman and Hall Microbiology Series.

**Nonlinear Dynamics and Evolutionary Economics.** Richard H. Day and Ping Chen, Eds. Oxford University Press, New York, 1993. xvi, 335 pp., illus. \$49.95. From a conference, Austin, TX, April 1989.

**Nuclear Energy.** An Introduction to the Concepts, Systems, and Applications of Nuclear Processes. Raymond L. Murray. 4th ed. Pergamon, Tarrytown, NY, 1993. xxiv, 437 pp., illus., + diskette. \$104 or £65; paper, \$48 or £29.50.

**Numerical Mathematics.** A Laboratory Approach. Shlomo Breuer and Gideon Zwas. Cambridge University Press, New York, 1993. xiv, 267 pp., illus. \$49.95.

**Palynology.** A Treatise. M. R. Saxena. Oxford and IBH, New Delhi, India, 1993 (U.S. distributor, International Science, Lebanon, NH). viii, 127 pp., illus. \$23.

**Partial Differential Equations for Scientists and Engineers.** Stanley J. Farlow. Dover, New York, 1993. xii, 414 pp., illus. Paper, \$12.95. Revised reprint, 1982 ed.

**Perspectives in Ethology.** Vol. 10, Behavior and Evolution. P. P. G. Bateson, Peter H. Klopfer, and Nicholas S. Thompson, Eds. Plenum, New York, 1993. xvi, 285 pp., illus. \$75.

**Ripples in the Cosmos.** A View Behind the Scenes of the New Cosmology. Michael Rowan-Robinson. Freeman/Spektrum, New York, 1993. viii, 224 pp., illus. \$22.95.

**The Role of Insulin-Like Growth Factors in the Nervous System.** Mohan K. Raizada and Derek LeRoith, Eds. New York Academy of Sciences, New York, 1993. x, 336 pp., illus. Paper, \$95. Annals of the New York Academy of Sciences, vol. 692. From a conference, Arlington, VA, Nov. 1992.

**Spices and Seasonings.** A Food Technology Handbook. Donna R. Tainter and Anthony T. Grenis. VCH, New York, 1993. xii, 226 pp., illus. \$95. Food Science and Technology.

**Stable Isotopes and Plant Carbon-Water Relations.** James R. Ehleringer, Anthony E. Hall, and Graham D. Farquhar, Eds. Academic, San Diego, CA, 1993. xx, 555 pp., illus. \$99. Physiological Ecology.

**Stopping Powers and Ranges for Protons and Alpha Particles.** International Commission on Radiation Units and Measurements, Bethesda, MD, 1993. x, 286 pp., illus. Paper, \$50. ICRU Report 49.

**X-Ray Diffraction at Elevated Temperatures.** A Method for In Situ Process Analysis. D. D. L. Chung *et al.* VCH, New York, 1993. viii, 268 pp., illus. \$95.