

chemicals could be used as a model for the generation of shell patterns Ermentrout developed a model using a neural net. Because the pigment-excreting cells in the mantle of a mollusk are under neural control, it is plausible to approach the problem by way of well-understood neural mechanisms that activate pigment synthesis locally while inhibiting it laterally. Formally, Ermentrout's models and results are similar to those described by Meinhardt, a feature of neural net models he points out. Thus, the main result and interest of *The Algorithmic Beauty of Sea Shells* is to show how a very large range of complex and beautiful patterns can be understood by an elegant insight. Although nearly 200 pages of text on this one topic may seem a bit much for some readers, the book is clearly written with many appeals to common experience for beginners. And it helps that the modeled subjects are beautiful. In effect a celebration of the power of analytical thinking, the book would make a splendid gift for anyone with an interest in how a mathematical model is designed and executed as well as anyone interested in the subject matter itself.

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Books Received

An Anthropologist on Mars. Seven Paradoxical Tales. Oliver Sacks. Knopf, New York, 1995. xx, 330 pp., illus., + plates. \$24 or \$C35.

Arithmetic of Diagonal Hypersurfaces over Finite Fields. Fernando Q. Gouvêa and Noriko Yui. Cambridge University Press, New York, 1995. xii, 168 pp., illus. Paper, \$32.95. London Mathematical Society Lecture Note, 209.

Behavioral Approaches for Children and Adolescents. Challenges for the Next Century. Henck P. J. G. van Bilsen, Philip C. Kendall, and Jan H. Slavenburg, Eds. Plenum, New York, 1995. viii, 176 pp., illus. \$69.50. From a conference, Rotterdam, The Netherlands, July, 1994.

Bose-Einstein Condensation. A. Griffin, D. W. Snoke, and S. Stringari, Eds. Cambridge University Press, New York, 1995. xiv, 602 pp., illus. \$79.95. Based on a workshop, Levico Terme, Italy, May-June 1993.

The Chemistry of Metal CVD. Toivo T. Kodas and Mark J. Hampden-Smith, Eds. VCH, New York, 1994. xxiv, 530 pp., illus. \$135.

College Algebra with Graphics and Problem Solving. Karl J. Smith. Brooks/Cole (Wadsworth), Pacific Grove, CA, 1994. xvi, 666 pp., illus. \$56.25.

Environmental Chemistry of the Heavy Elements. Hydrido and Organo Compounds. John S. Thayer. VCH, New York, 1995. xii, 145 pp., illus. \$65.

Enzymology and Molecular Biology of Carbonyl Metabolism 5. Henry Weiner, Roger S. Holmes, and Bendicht Wermuth, Eds. Plenum, New York, 1995. xii, 442 pp., illus. \$120. Advances in Experimental Medicine and Biology, vol. 372. From a workshop, Palmerston North, New Zealand, July 1994.

Expanding Archaeology. James M. Skibo, William H. Walker, and Axel E. Nielsen, Eds. University of Utah Press, Salt Lake City, 1995. viii, 256 pp., illus. \$40.

The Giant Planet Jupiter. John H. Rogers. Cambridge University Press, New York, 1995. x, 418 pp., illus., + plates. \$89.95. Practical Astronomy Handbook, 6.

The Great Human Diasporas. The History of Diver-

sity and Evolution. Luigi Luca Cavalli-Sforza and Francesco Cavalli-Sforza. Addison-Wesley, Reading, MA, 1995. xvi, 300 pp., illus. \$27.50. Translated from the Italian edition (Milan, 1993) by Sarah Thorne.

A History of Hypnotism. Alan Gauld. Cambridge University Press, New York, 1995. xx, 738 pp., illus. \$120; paper, \$34.95. Reprint, 1992 ed.

A History of Life on Earth. Understanding Our Planet's Past. Jon Erickson. Facts on File, New York, 1995. xii, 244 pp., illus. \$24.95. Changing Earth.

Information Seeking in Electronic Environments. Gary Marchionini. Cambridge University Press, New York, 1995. xii, 224 pp., illus. \$49.95. Cambridge Series on Human-Computer Interaction, 9.

Introduction to Environmental Impact Assessment. Principles and Procedures, Process, Practice and Prospects. John Glasson, Riki Therivel, and Andrew Chadwick. UCL, London, 1994 (U.S. distributor, Taylor and Francis, Bristol, PA). x, 342 pp., illus. \$75; paper, \$27.50.

Introduction to Geophysical Fluid Dynamics. Benoit Cushman-Roisin. Prentice Hall, Englewood Cliffs, NJ, 1994. xvi, 320 pp., illus. \$60.

The Mangle of Practice. Time, Agency, and Science. Andrew Pickering. University of Chicago Press, Chicago, 1995. xiv, 281 pp., illus. \$45 or £35.95; paper, \$17.95 or £14.25.

Microbiology and Immunology Casebook. James T. Barrett. Little Brown, New York, 1995. x, 262 pp. Paper, \$17.95.

Mitochondria. DNA, Proteins and Disease. V. Darley-Usmar and A. H. V. Schapira, Eds. Portland, Chapel Hill, NC, 1994. xii, 286 pp., illus. \$80 or £50. Portland Press Research Monograph, 5.

Nature's Numbers. The Unreal Reality of Mathematical Imagination. Ian Stewart. BasicBooks, New York, 1995. xii, 164 pp., illus. \$20. Science Masters.

The Petkau Effect. The Devastating Effect of Nuclear Radiation on Human Health and the Environment. Ralph Graeb. 2nd ed. Four Walls Eight Windows, New York, 1994. xxvi, 251 pp., illus. Paper, \$14.95. Translated from the German edition (Bern, 1990) by Phil Hill.

Photodissociation Dynamics. Spectroscopy and Fragmentation of Small Polyatomic Molecules. Reinhard

Schinke. Cambridge University Press, New York, 1995. xvi, 417 pp., illus. \$100; paper, \$39.95. Cambridge Monographs on Atomic, Molecular, and Chemical Physics, 1.

The Physical Principles of Magneto-optical Recording. Masud Mansuripur. Cambridge University Press, New York, 1995. xx, 756 pp., illus. \$99.95.

Physics for Geologists. Richard E. Chapman. UCL, London, 1995 (U.S. distributor, Taylor and Francis, Bristol, PA). xvi, 143 pp., illus. Paper, \$24.95.

Quantum Chemistry Workbook. Basic Concepts and Procedures in the Theory of the Electronic Structure of Matter. Jean-Louis Calais. Wiley, New York, 1994. xii, 204 pp. Paper, \$39.95.

Scientific Visualization. Advances and Challenges. L. Rosenblum *et al.*, Eds. Academic Press, San Diego, 1994. xxiv, 532 pp., illus. \$35.

Self-Efficacy, Adaption, and Adjustment. Theory, Research, and Application. James E. Maddux, Ed. Plenum, New York, 1995. xviii, 395 pp., illus. \$54.50. Plenum Series in Social/Clinical Psychology.

Thermodynamics of Small Systems. Parts I and II. Terrell L. Hill. Dover, New York, 1994. xii, 210 pp., illus. Paper, \$10.95. Reprint, 1963-64 ed.

Publishers' Addresses

Below is information about how to direct orders for books reviewed in this issue. A fuller list of addresses of publishers represented in *Science* appears in the issue of 26 May 1995, page 1220.

Cambridge University Press, 110 Midland Ave., Port Chester, NY 10573-4930. Phone: 800-872-7423; 914-937-9600. Fax: 914-937-4712.

Springer-Verlag New York Inc., 333 Meadowlands Parkway, Secaucus, NJ 07096. Phone: 800-777-4643; 201-348-4033. Fax: 201-348-4505.

Vignettes: Veiled Presences

Men's first names are designated by initials (e.g. Smith, J. D.) except for knights and baronets or where it is necessary to distinguish between two men with the same initials and surname, at the same institution; or, in the case of non-Western names of two or more elements none of which is abbreviated.

Women's names are normally indicated by the inclusion in full of one first name (unless the university, department or individual has requested otherwise), any other first names being represented by initials only (e.g. Smith, Mary J.). The word "Mrs." may be included in the entries for married women, but "Miss" is omitted when a first name is given in full, unless it is likely to be unfamiliar as such to English-speaking readers.

Where, as a matter of policy, an institution does not wish to differentiate between male and female staff, a note to that effect is printed at the head of its chapter.

—"Notes on the University Chapters" in *Commonwealth Universities Yearbook: A Directory to the Universities of the Commonwealth and the Handbook of Their Association*, 1994 edition, volume 1 (Association of Commonwealth Universities)

Counting heads in University departments . . . is by no means a straightforward exercise these days.

—Deirdre O'Sullivan, in *Equity Issues for Women in Archaeology* (Margaret C. Nelson, Sarah M. Nelson, and Alison Wylie, Eds.; American Anthropological Association)