

job than I could. There are some points that I would have discussed, however, which Cadle apparently considered beyond the scope of his book, for he mentions them only very briefly, if at all. These include loess, the movement of soils by the dust storms of the Great Plains, the dry fogs of southeastern Russian and western China, the rains of "blood" recorded from the present back to the Roman period or earlier, and the possible connection between meteoritic dust and rainfall.

The only technical errors I detected were two resulting from new information published too late for inclusion in this book. I regard the book as a welcome and valuable addition to my library.

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Potential-pH Diagrams

The potential-pH diagram, originated by Marcel Pourbaix in his doctoral dissertation, portrays graphically the conditions under which oxidation-reduction reactions of an element and its compounds are possible or impossible in aqueous systems at 25°C. In the *Atlas of Electrochemical Equilibria in Aqueous Solutions* [James A. Franklin, Transl. Centre Belge d'Etude de la Corrosion (CEBELCOR), Brussels; Pergamon, New York, 1966. 644 pp., illus. \$36] Pourbaix and 21 other contributors have provided such diagrams for 91 elements. Introductory chapters have outstanding clarity, and the book is relatively free of errors.

The term "atlas" is apt. If the periodic table of the elements is a globe marking outlines of the chemical continents, a series of potential-pH diagrams becomes a relief map showing great detail. Though not intended primarily as a pedagogical tool, the approach certainly deserves an appearance in chemistry textbooks. The *Atlas* is intended as a working reference for the electrochemist, corrosion engineer, and others. Americans in these categories have the work available in English translation for the first time. They will soon find it practically indispensable.

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New Books

The Artful Practice of Medicine. William B. D. Van Auken. Thomas, Springfield, Ill., 1966. 131 pp. \$6.50.

Atom and Organism: A New Approach to Theoretical Biology. Walter M. Elsasser. Princeton Univ. Press, Princeton, N.J., 1966. 153 pp. \$4.50.

Beyond the Pillars of Heracles. The classical world seen through the eyes of its discoverers. Rhys Carpenter. Delacorte Press, New York, 1966. 287 pp. Illus. \$6.

Bibliotheca Medica: Physician for Tomorrow. David McCord, Ed. Published for the Harvard Medical School. Harvard Univ. Press, Cambridge, Mass., 1966. 266 pp. Illus. \$5.50. Sixteen papers given at the dedication of the Countway Library of Medicine, May 1965.

Book of ASTM Standards: With Related Material. Pt. 6, *Light Metals and Alloys (Including Electrical Conductors)* (518 pp.; \$9, members, \$6.30); pt. 8, *Magnetic Properties; Metallic Materials for Thermostats and for Electrical Resistance, Heating, and Contacts; Materials for Electron Devices and Microelectronics* (790 pp.; \$12, members, \$7); pt. 10, *Concrete and Mineral Aggregates* (606 pp.; \$10, members, \$7); pt. 14, *Thermal Insulation; Acoustical Materials; Joint Sealants; Fire Tests; Building Constructions* (524 pp.; \$9, members, \$6.30); pt. 23, *Industrial Water; Atmospheric Analysis* (902 pp.; \$15, members, \$10.50). American Soc. for Testing and Materials, Philadelphia, 1966. Illus.

The Community Junior College. James W. Thornton, Jr. Wiley, New York, ed. 2, 1966. 312 pp. Illus. \$7.95.

Comparative Osteology of the Snake Families Typhlopidae and Leptotyphlopidae. James Carl List. Univ. of Illinois Press, Urbana, 1966. 120 pp. Illus. Paper, \$3.75, cloth, \$4.75.

John Dalton and the Atom. Frank Greenaway. Cornell Univ. Press, Ithaca, N.Y., 1966. 254 pp. Illus. \$6.95.

Desde un Alto en el Camino: Vision y Examen Retrospectivos. J. Joaquin Izquierdo. Ediciones Ciencia, Mexico D.F., 1966. 542 pp. Illus.

Elements of Probability Theory. J. Bass. Translated from the French edition (Paris, 1962) by W. McKay. A. Jeffrey, Translation Ed. Academic Press, New York, 1966. 263 pp. Illus. \$9.75.

Environmental Biology. Compiled and edited by Philip L. Altman and Dorothy S. Dittmer. Federation of American Societies for Experimental Biology, Bethesda, Md., 1966. 718 pp. Illus. \$15.

Genetik und Zytologie von Antirrhinum L. sect. Antirrhinum. Hans Stubbe. Fischer, Jena, East Germany, 1966. 421 pp. Illus. MDN. 82.

Glossary of Oceanographic Terms. B. B. Baker, Jr., W. R. Deebe, and R. D. Geisenderfer, Eds. U.S. Naval Oceanographic Office, Washington, D.C., 1966 (order from Superintendent of Documents, Washington, D.C.). 210 pp. Illus. \$2.25.

A Guide to Dental Practice. Michael B. Treweeke. Pergamon, New York, 1966. 100 pp. Illus. \$4. Pergamon Series on Dentistry, vol. 5.

A Guide to Science Reading. Compiled and edited by Hilary J. Deason. New American Library, New York, ed. 2, 1966. 288 pp. Paper, 75¢.

Handbuch der Histochemie. vol. 1, *Allgemeine Methodik.* M. Vialli, J. Kruszynski, and H. v. Mayersbach. Fischer, Stuttgart, Germany, 1966 (order from Intercontinental Medical Book Corp., New York). 306 pp. Illus. \$23.50.

Introduction to Electronic Systems, Circuits, and Devices. Donald O. Pederson, Jack J. Studer, and John R. Whinnery. McGraw-Hill, New York, 1966. 477 pp. Illus. \$8.95.

Introduction to Fibres and Fabrics: Their Manufacture and Properties. E. Kornreich. Elsevier, New York, 1966. 212 pp. Illus. \$7.50.

Introduction to Solid State Physics. Charles Kittel. Wiley, New York, ed. 3, 1966. 662 pp. Illus. \$12.50.

An Introduction to Transition-Metal Chemistry: Ligand-Field Theory. Leslie E. Orgel. Methuen, London; Wiley, New York, ed. 2, 1966. 186 pp. Illus. \$5.95.

Isobaric Spin in Nuclear Physics. Proceedings of a conference (Tallahassee, Fla.), March 1966. John D. Fox and Donald Robson, Eds. Academic Press, New York, 1966. 910 pp. Illus. \$9. Sixty-four papers.

Laplace Transforms for Electronic Engineers. James G. Holbrook. Pergamon, New York, ed. 2, 1966. 361 pp. Illus. \$10. International Series of Monographs in Electronics and Instrumentation, vol. 10.

Late Eighteenth Century European Scientists. R. C. Olby, Ed. Pergamon, New York, 1966. 217 pp. Illus. Paper, \$3.50. Commonwealth and International Library. Seven papers.

Light and Vision. Conrad G. Mueller, Mae Rudolph, and the Editors of *Life*. Time Inc., New York, 1966. 200 pp. Illus. \$3.95. Life Science Library.

Managerial Power and Soviet Politics. Jeremy R. Azrael. Harvard Univ. Press, Cambridge, Mass., 1966. 270 pp. \$4.95.

Nature's Medicines: The Folklore, Romance, and Value of Herbal Remedies. Richard Lucas. Parker, West Nyack, N.Y., 1966. 224 pp. \$5.95.

Negroes and the New Southern Politics. Donald R. Matthews and James W. Prothro. Harcourt, Brace, and World, New York, 1966. 567 pp. Illus. \$12.50.

Persistent Persecutory States of the Elderly. Felix Post. Pergamon, New York, 1966. 110 pp. \$4.

Perspectives in Modern Physics. Essays in honor of Hans A. Bethe on the occasion of his 60th birthday, July 1966. R. E. Marshak, Ed. Interscience (Wiley), New York, 1966. 685 pp. Illus. \$19.50. Forty-one papers.

Research in Clinical Assessment. Edwin I. Megargee, Ed. Harper and Row, New York, 1966. 718 pp. Illus. \$14.75. Fifty-eight papers.

Semiconductor Devices. vol. 1, *Semiconductors and Semiconductor Diodes.* Max J. O. Strutt. Academic Press, New York, 1966. 331 pp. Illus. \$12.50.

Studying Our Fellow Mammals. Ernest P. Walker. Animal Welfare Inst., New York, 1966. 186 pp. Illus. Paper, \$1.