

dealt with adequately, and the theoretical section concludes with a discussion of the complicated treatments encountered when dealing with stress analysis in joints.

The treatment of specific adhesive systems occupies the major portion of the book. Principal divisions are made between organic adhesives, inorganic adhesives and cements, rubbery adhesives, and soldered joints, with suitable subdivisions where appropriate. The materials discussed are representative—for example, animal glue, starches, synthetic resins, asphaltic bitumen, and sodium silicate are listed, but the list is by no means exhaustive. The emphasis upon the various materials appears to be only indirectly related to their commercial importance, or to the adhesion principles they exemplify.

Many of the adhesives described have received adequate treatment elsewhere. The present volume serves mainly to bring this work up to date, and to assemble

in one place a variety of materials to be dealt with in their capacity as adhesives. Comprehensive bibliographies with each subject will enable the reader to pursue further any subject of choice.

The editors state that the theoretical portion of this work was circulated in advance to the authors who dealt with applications. This has undoubtedly led to some uniformity in viewpoint and treatment, but on the whole the terminology and discussion are those usually encountered in the several specialist fields. There are more than the usual number of typographical errors, as well as examples of unusual hyphenation practice. These shortcomings are neither serious nor misleading, and the book can be recommended for having made a worth-while contribution to its field.

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Scientific Book Register

Swartkrans Ape-Man: *Paranthropus Crassidens*. Transvaal Museum Memoir No. 6. Robert Broom and J. T. Robinson. Pretoria, South Africa: Transvaal Museum, 1952. 123 pp.; 8 plates.

Textbook of Electrochemistry, Vol. II. Rev. ed. of *Lehrbuch der Elektrochemie*. G. Kortüm and J. O'M. Bockris. Houston-Amsterdam: Elsevier Press, 1951. Pp. 353-882. \$10.00.

Faune de France: Orthoptéroïdes, Vol. 56. Lucien Chopard. Paris: Paul Lechevalier, 1951. 359 pp. Paper-bound.

Register of New Fruit and Nut Varieties, 1920-1950. Compiled by Reid M. Brooks and H. P. Olmo. Berkeley: Univ. California Press, 1952. 206 pp. \$3.00.

The Chemistry of Heterocyclic Compounds: Thiophene and its Derivatives. Howard D. Hartough, with special chapters by F. P. Hoehgesang and F. F. Blicke. New York-London: Interscience, 1952. 533 pp. \$16.50; sub. price, \$15.00.

Patterns of Survival: An Anatomy of Life. 2nd ed. John Hodgdon Bradley. New York: Grune & Stratton, 1952. 223 pp. \$3.75.

Principles of Quantum Mechanics: Nonrelativistic Wave Mechanics with Illustrative Applications. William V. Houston. New York-London: McGraw-Hill, 1951. 288 pp. \$6.00.

Bioluminescence. E. Newton Harvey. New York: Academic Press, 1952. 649 pp. \$13.00.

Economic Botany: A Textbook of Useful Plants and Plant Products. 2nd ed. Albert F. Hill. New York-London: McGraw-Hill, 1952. 560 pp. \$7.00.

The Phosphatides. American Chemical Society Monograph No. 112. Harold Wittecoff. New York: Reinhold, 1951. 564 pp. \$10.00.

Rheumatic Diseases. Based on the Proceedings of the Seventh International Congress on Rheumatic Diseases. Prepared by the Committee on Publications of the American Rheumatism Association. Philadelphia-London: Saunders, 1952. 449 pp. \$12.00.

Advances in Catalysis and Related Subjects. Vol. III. W. G. Frankenburg, V. I. Komarevsky, and E. K. Rideal, Eds. New York: Academic Press, 1951. 360 pp. \$7.80.

Diagnostic and Experimental Methods in Tuberculosis. 2nd ed. Henry S. Willis and Martin M. Cummings. Springfield, Ill.: Thomas, 1952. 373 pp. \$10.00.

Tables of Percentage Composition of Organic Compounds. H. Gysel. Basel: Verlag Birkhäuser, 1951. 637 pp. Sw. fr. 125.

Case Histories of Psychosomatic Medicine. Henry H. W. Miles, Stanley Cobb, and Harley C. Shands, Eds. New York: Norton, 1952. 306 pp. \$4.50.

Absorption and Extraction. 2nd ed. Thomas K. Sherwood and Robert L. Pigford. New York-London: McGraw-Hill, 1952. 478 pp. \$7.50.

Matter and Motion. Repr. J. Clerk Maxwell; with notes and appendices by Joseph Larmor. New York: Dover, 1952. 163 pp. \$1.25 paper; \$2.50 cloth.

The Production of Doctorates in the Sciences: 1936-1948. Report of a project sponsored by the Manpower Branch, Human Resources Division, Office of Naval Research. Douglas E. Seates, Bernard C. Murdoch, and Alice V. Yeomans. Washington, D. C.: American Council on Education, 1951. 228 pp.

Fluorine and Its Compounds. R. N. Haszeldine and A. G. Sharpe. London: Methuen; New York: Wiley, 1951. 153 pp. \$1.75.

Extrusion of Plastics, Rubber and Metals. Herbert R. Simonds, Archie J. Weith, and William Schack. New York: Reinhold, 1952. 454 pp. \$10.00.

Blood Clotting and Allied Problems. Transactions of the Fourth Conference, January 22-23, 1951, New York. Joseph E. Flynn, Ed. New York: Josiah Macy, Jr. Fdn., 1951. 272 pp. \$4.00.

Thinking: An Introduction to Its Experimental Psychology. Methuen's Manuals of Modern Psychology. George Humphrey. London: Methuen; New York: Wiley, 1951. 331 pp. \$4.50.