

A third shortcoming is the appreciable number of erroneous statements contained in the book. It is a difficult job to cover as wide a selection of topics as this book does and yet to avoid having some misstatements appear. Those noted in the material of a basic nature are the statements that Born's statistical interpretation is applicable to a system of many electrons only if their mutual interaction may be neglected, and that in the scattering of a pair of electrons, or protons, the interaction is purely the coulomb force for the case of antiparallel spins but greater for parallel spins.

On the whole, the book gives a survey of a broad range of phenomena that can be explained by the principles of quantum theory and a good discussion of many topics, including both basic ones and those of a more applied nature, but a student is not likely to be able to get from it by himself a thorough and solid understanding of the fundamental principles.

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Supplement No. 2, 1955, of Cancer Research. *Negative Data from Experimental Cancer Chemotherapy Studies*, II. Various contributors. Univ. of Chicago Press, Chicago, 1955. 397 pp.

This supplement was published as a continuation of data presented in Supplement No. 1, 1953. Various contributors have supplied essentially experimental protocols in tabular form, with the briefest of textual explanatory notes, dealing with the failings of an imposing array of chemical compounds to affect experimental mouse and rat tumors. The editors state that the publication facilitates "earlier circulation of data, whether positive or negative, in order to prevent useless reduplication and to acquaint investigators of areas being explored by their confreres elsewhere." Unfortunately, some of the advantages of this type of publication have been overlooked by those contributors who refer to several previous publications of their negative findings.

Although the concept of printing a journal devoted to negative results may appear somewhat less than profound, the publication of such compilations in many fields might be appropriate and effective. This procedure would tend to relieve the already overburdened technical journals from publishing lengthy and formal articles reporting essentially negative findings, which are nonetheless of interest to workers in the specific field, and would present these results in brief but adequate, accessible form.—E. M. L.

Scientific and Technical Societies of the United States and Canada. National Academy of Sciences—National Research Council, Washington, ed. 6, 1955. 441 pp. \$7.50.

Here is information on 1506 membership societies of a scientific or technical character in the United States, ranging from the Abilene Geological Society to the Zoological Society of San Diego, Inc. Similar information on 206 Canadian societies is also included. Information about each includes name and address, principal officers, history, purpose, membership qualifications and dues, size, time of meetings, research funds and medals if any, and publications.

The first such directory was published in 1908 by the Carnegie Institution of Washington. In 1927, by agreement, the National Academy of Sciences—National Research Council took over responsibility. This is the sixth directory under the NAS-NRC auspices. It differs from earlier ones in omitting institutions that do not have members. Information on the Canadian societies was compiled by the National Research Council of Canada; that on the United States by Callie Hull, librarian of the NAS-NRC, and her staff.

Directories of this sort are always useful. This one is particularly to be commended because of the up-to-dateness of the information (all obtained directly from officers of the listed societies in the latter half of 1954) and the detailed index of societies, publications, prizes and research funds, activities, purposes, and fields of science. There is a similar index for Canada.—D. W.

New Books

Electro-Magnetic Machines. R. Langlois-Berthelot. Trans. and rev. in collaboration with H. M. Clarke. Philosophical Library, New York, 1955. 535 pp. \$15.

Introduction to Demography. Society of Actuaries' textbook. Mortimer Spiegelman. The Society, Chicago, 1955. 309 pp. \$6.

Anti-Composition Tables for Carbon Compounds (CH, CHO, CHS, and CHOS). H. H. Hatt, T. Pearcey, A. Z. Szümer, compilers. Cambridge Univ. Press, London, 1955. 191 pp. \$4.

Counseling in Medical Genetics. Sheldon C. Reed. Saunders, Philadelphia, 1955. 268 pp. \$4.

Advances in Genetics. vol. VII. M. Demerec, Ed. Academic Press, New York, 1955. 309 pp. \$8.

A Classification for Medical and Veterinary Libraries. Cyril C. Barnard. Lewis, London, ed. 2, 1955. 278 pp. £4, 4s.

A Handbook of Hospital Psychiatry. A practical guide to therapy. Louis Linn. International Universities Press, New York, 1955. 560 pp. \$10.

Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or sponsoring agency.)

Autohydrogenation of Oil Gases. Research Bull. 25, Inst. of Gas Technology. H. A. Dirksen, H. R. Linden, E. S. Pettyjohn. Illinois Inst. of Technology, Chicago, 1955. 75 pp. \$5.

Memórias do Instituto Butantan, 1954. vol. XXVI. Instituto Butantan, São Paulo, Brasil. 318 pp.

Retailing and Wholesaling Cotton Planting Seed in Arkansas. Bull. 554. C. Curtis Cable, Jr. Agricultural Experiment Sta., Univ. of Arkansas, Fayetteville, 1955. 32 pp.

Notes on Shrimps from the Marshall Islands. Proceedings of the U.S. National Museum. vol. 105, No. 3349. Fenner A. Chace, Jr. Smithsonian Institution, Washington, 1955. 22 pp.

Thirty-Eighth Annual Report of the National Research Council of Canada, 1954-55 (in English and French). NRC No. 3607. The Council, Ottawa, 1955. 44 pp.

Observations sur la Genèse des Nappes de Gravats dans les Sols Tropicaux. Série Scientifique No. 64. J. de Heinzelin. L'Institut National pour l'Étude Agronomique du Congo Belge, Bruxelles, 1955. 37 pp. F. 30.

Facilities for Care of Experimental Dairy Animals. Special Rpt. 10. George G. Bateman. 12 pp. *Growing Alfalfa for Seed.* Circular 135. M. W. Pedersen et al. 60 pp. *Performance Testing Studies with Beef Cattle.* Bull. 337. James A. Bennett and Doyle J. Matthews. 15 pp. *Biennial Report of the Utah Agricultural Experiment Station 1952-1954.* Bull. 373. 62 pp. *Fertilizer Requirements of Alfalfa Hay in Utah.* Bull. 374. R. F. Nielson, J. P. Thorne, G. T. Baird. 15 pp. *Eradication of Mule Ear with Herbicides and Its Relation to Production of Forage on Range Lands.* Bull. 375. D. C. Tingey and C. Wayne Cook. 15 pp. *Potato Production, Utah 1953.* An economic analysis. Bull. 376. E. M. Morrison and W. G. Kearl. 26 pp. Agricultural Experiment Sta., Utah State Agricultural College, Logan, 1955.

Resultados Generales Referentes a la Descripción de un Foton en un Medio Material. A. Battig. vol. 10, No. 1-2, Ser. A, Revista. Matemática y Física Teórica. Universidad Nacional de Tucumán, Tucumán, República Argentina, 1954.

Tests for Type of Action of Hydrocarbon Insecticides Applied Jointly. Bull. 594. Neely Turner. Connecticut Agricultural Expt. Sta., New Haven, 1955. 23 pp.

Joint ILO/WHO Committee on the Hygiene of Seafarers. Second Rept. World Health Organization Technical Rept. Ser. No. 92. The Organization, Geneva, 1955. 20 pp. \$0.30.

Eighteenth Semiannual Report of the Atomic Energy Commission. July 1955. GPO, Washington, D.C., 1955. 160 pp.

Second International Congress of the International Diabetes Federation. Cambridge, England, 4-8 July 1955. The Federation, The Hague, 1955.