

properties of solutions in low-boiling liquids and fused salts. The latter sections are well illustrated, and all of the chapters are well documented. The announced contents of volume 2 indicate that succeeding volumes in this series are to be devoted to more detailed consideration of individual solvents. Collectively, these volumes should become a major contribution to the literature of non-aqueous solvent chemistry and indispensable to those actively working in this field. The contributors to volume 1 and the editor are to be commended for a job well done. It is to be hoped that equally high standards of clarity of presentation and careful editing will be maintained in the volumes to follow.

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Endocrinology

Steroid Dynamics. Proceedings of a symposium on the dynamics of steroid hormones held in Tokyo, May 1965. GREGORY PINCUS, TAKESHI NAKAO, and JAMES F. TAIT, Eds. Academic Press, New York, 1966. 595 pp., illus. \$20.

Endocrine research received great impetus from the synthesis, in the early 1950's, of radioactively labeled steroid hormones. Their use, both in studies in vivo and in laboratory experiments, has permitted significant advances in our understanding of the secretion, metabolism, mode of action, and excretion of the hormones produced by the adrenal gland, testis, and ovary.

Steroid Dynamics contains a number of contributions in this field, presented to a meeting of a group of American and Japanese workers assembled under the United States-Japan Co-operative Science Program. Although there are papers in most areas of steroid investigation, including control mechanisms, biosynthesis, metabolism, and action at target sites, the quality and breadth of the contributions show considerable variation. The reader seeking a comprehensive review of the title subject should be aware of the bias, in ideas and techniques, toward those of the American participants—many of whom are, nevertheless, leaders in the field.

Reviews by Lipsett, Tait, and Lieberman are particularly useful appraisals of current notions regarding the esti-

mation of the secretion rates and metabolic transformations of the steroid hormones, particularly the androgens, and Kono provides confirmation of the usefulness of these techniques in small numbers of normal subjects and in patients with disorders of the pituitary and adrenal glands and with hypertension and renal disease. The interactions of steroids with plasma proteins are fully reviewed by Sandberg and Seal. Jensen and Edelman discuss the cellular actions of estrogens and aldosterone. The paper by Luetscher on the conjugation and excretion of aldosterone is of particular interest. In contrast, some of the Japanese papers are handicapped by poor translation and a rather overwhelming mass of detail; several of these seem barely to come within the scope of the title.

The individual papers and the transcripts of ensuing discussions show that the purposes of the meeting reported in this volume have undoubtedly been achieved, in the fostering of contacts between scientists in the fields concerned. However, the advisability of publishing the proceedings in book form is rendered somewhat doubtful when the participants are restricted to two countries and the subjects reviewed are on the whole adequately covered in other publications.

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Books Received

Advances in Electrochemistry and Electrochemical Engineering. vol. 5, *Electrochemical Engineering*. Charles W. Tobias, Ed. Interscience (Wiley), New York, 1967. 337 pp. Illus. \$14.50. Five papers.

Advances in Heterocyclic Chemistry. vol. 8. A. R. Katritzky and A. J. Boulton, Eds. Academic Press, New York, 1967. 420 pp. Illus. \$19. Eight papers.

Birds of Australia. Abram Rutgers. Methuen, London; Barnes and Noble, New York, 1967. 331 pp. Illus. \$15.

Book of Minerals. Albertus Magnus. Translated from three editions (Paris, 1890-1899; Venice, 1495; and Oppenheim, 1518) by Dorothy Wyckoff. Oxford Univ. Press, New York, 1967. 351 pp. Illus. \$13.45.

Bubble and Spark Chambers: Principles and Use. vol. 2. R. P. Shutt, Ed. Academic Press, New York, 1967. 331 pp. Illus. \$16. Pure and Applied Physics Series. Five papers.

The California Oath Controversy. David P. Gardner. Univ. of California Press, Berkeley, 1967. 343 pp. \$6.50.

The Cambridge Medieval History. vol. 4, *The Byzantine Empire*, pt. 2, *Govern-*

ment, Church and Civilisation. J. M. Hussey, Ed. Cambridge Univ. Press, New York, 1967. 559 pp. Illus. \$14.50.

Chemical Equilibrium and Solutions: A Programmed Introduction. James E. Banks. McGraw-Hill, New York, 1967. 184 pp. Illus. Paper, \$2.50; cloth, \$3.95.

The Child Analyst at Work. Elisabeth R. Geleerd, Ed. International Universities Press, New York, 1967. 316 pp. \$7. Ten papers.

Chinese Economic Statistics: A Handbook for Mainland China. Nai-Ruenn Chen. Aldine, Chicago, 1967. 571 pp. Illus. \$15.

Samuel Clossy, M.D.: The Existing Works. With a biographical sketch by Morris H. Saffron. Including a facsimile reprint of "Observations on Some of the Diseases of the Parts of the Human Body." Hafner, New York, 1967. Unpagged. Illus. \$10.50.

Design for a Brain: The Origin of Adaptive Behavior. W. Ross Ashby. Chapman and Hall, London; Barnes and Noble, New York, ed. 2, 1967. 296 pp. Illus. Paper, \$2.85; cloth, \$7.50.

A Dictionary of Zoology. A. W. Leftwich. Constable, London; Van Nostrand, Princeton, N.J., 1967. 327 pp. \$6.50.

Early Nineteenth Century European Scientists. R. C. Olby, Ed. Pergamon, New York, 1967. 191 pp. Illus. \$5. Six papers.

The Ecology of Insect Populations in Theory and Practice. L. R. Clark, P. W. Geier, R. D. Hughes, and R. F. Morris. Methuen, London; Barnes and Noble, New York, 1967. 246 pp. Illus. \$8.

Electrochemical Kinetics: Theoretical and Experimental Aspects. Klaus J. Vetter. Based on a translation of the German edition (Berlin, 1961) by Scripta Technica. Stanley Bruckenstein and Brian Howard, Translation Eds. Academic Press, New York, 1967. 822 pp. Illus. \$36.

Freedom and Order in the University. Samuel Gorovitz, Ed. Press of Western Reserve Univ., Cleveland, 1967. 232 pp. \$5.75. Six essays.

Fuel: Solid, Liquid, and Gaseous. J. S. S. Brame and J. G. King. St. Martin's Press, ed. 6, New York, 1967. 528 pp. Illus. \$23.

Fundamentals of Mathematical Physics. Edgar A. Kraut. McGraw-Hill, New York, 1967. 480 pp. Illus. \$11.

The Gamma Globulins. Charles A. Janeway, Fred S. Rosen, Ezio Merler, and Chester A. Alper. Little, Brown, Boston, 1967. 160 pp. Illus. \$6.75. *New England Journal of Medicine* Medical Progress Series.

Generalized Networks. Proceedings of a symposium (New York), April 1966. vol. 16. J. Fox, Ed. Polytechnic Press, Brooklyn, N.Y.; Interscience (Wiley), New York, 1967. 823 pp. Illus. \$18. Microwave Research Institute Symposia Series. Thirty-eight papers.

Genetic and Environmental Factors in Human Ability. A symposium, September-October 1965. Sponsored by the Eugenics Society. J. E. Meade and A. S. Parkes, Eds. Plenum Press, New York, 1966. 254 pp. Illus. \$12.50.

The Genus Pinus. N. T. Mirov. Ronald, New York, 1967. 610 pp. Illus. \$15.

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