

The Eye and Irradiation

L'Oeil et les Radiations Ionisantes. By C. Haye, H. Jammet, and M.-A. Dollfus. (Vol. 1: pp. 776. Vol. 2: pp. 777-1444; illustrated. 200 F.) Paris: Masson. 1965.

The special reports of the French Ophthalmological Society have always been important documents in ophthalmology, and several of them have become classical. This treatise in two volumes is a very complete and detailed exposition of our knowledge of the effects of ionizing radiation on the eye. In the first part the physical and biological properties of these radiations are discussed, the types encountered (natural, industrial, medical, and military), their measurement, and the appropriate methods of protection against them. Chapters follow on the immediate and delayed ocular lesions produced by atomic explosions and the associated types of industrial accident, the medical use of α -, β -, and γ -radiations, and their clinical and pathological effects in which the original investigations of the authors on the problems raised are included. The treatment of ocular tumours and a host of medical conditions by radiation is also described in great detail,

as well as the uses of radio-isotopes, while a final chapter deals with the medico-legal aspects of this subject.

There is no source of information on this vast and rapidly growing subject known to the reviewer which presents such a clear and comprehensive account, and the bibliographies gathered are immense. The two volumes will be useful to a much wider scientific circle than ophthalmologists, particularly in view of the ease and clarity with which the biological effects of radiation can be observed and studied in the ocular tissues.

STEWART DUKE-ELDER.

Genetic Principles

Human Genetics and Its Foundations. By Professor Maurice Whittinghill. (Pp. 431 + xvi; illustrated. 72s.) London: Chapman & Hall. 1965.

The author of this book is a professor of zoology but has a good working relationship with medical practitioners interested in genetics. The exposition of basic principles, such as the structure of D.N.A., the mechanism of normal and abnormal formation of the

haemoglobin tetramer by the alpha, beta, and delta gene loci, and the action of regulator and operator genes, is stimulating and sound. The mathematics are kept simple and fully explained. The more clinical sections lack in part the feel of a book written by a medical practitioner, and contain one or two misinterpretations. For example, the author records the report of the man with normal intelligence who had trisomy 19 without suggesting that he must be a mosaic with a cell line containing a G/G interchange. The section on polygenic inheritance is perhaps insufficient. On the other hand the author is specially good on radiation-induced chromosome and gene mutations, and introduces some modern ideas on the mechanism of radiation- and virus-induced leukaemia and cancer. There are a number of interesting and amusing analogies drawn from animal genetics. The female tortoiseshell cat is an excellent example of the Lyon hypothesis, and the reviewer was gratified to read that some at least of the rare sterile male tortoiseshells are the feline equivalent of patients with Klinefelter's syndrome, having an XXY genotype.

C. O. CARTER.

Books Received

Review is not precluded by notice here of books recently received.

L'Allergie. "Que Sais-Je?" No. 1201. By Bernard Halpern. (Pp. 126; illustrated. No price given.) Paris: Presses Universitaires de France. 1965.

Criminology in Transition. Essays in Honour of Hermann Mannheim. Edited by Tadeusz Grygier, Howard Jones, and John C. Spencer. (Pp. 308 + xix. 45s.) London: Tavistock. 1965.

Diagnosis and Medical Treatment of Colitis. By Joseph B. Raddin, M.D. (Pp. 76. \$2.98.) Berkeley, California: Berkeley Scientific Publications. 1965.

Elementary Bacteriology and Immunity for Nurses. By Stanley Marshall, M.D., B.S. (London), M.R.C.S.(Eng.), L.R.C.P.(London), F.C.Path. (Pp. 123 + viii; illustrated. 17s. 6d.) London: H. K. Lewis. 1965.

Management of Juvenile Diabetes Mellitus. By Howard S. Traisman, M.D., and Alvah L. Newcomb, M.D. (Pp. 147 + x; illustrated. 96s.) London: Henry Kimpton. Saint Louis: C. V. Mosby. 1965.

Primary Amenorrhoea. A Study with Special Reference to the Morphology of the Genital Organs. By Knut Bjørø. (Pp. 125. 45s.) Oslo: Scandinavian University Books. 1965.

Therapie-Fibel der Inneren Medizin. Für Klinik und Praxis. By Professor Sven Moeschlin. (Pp. 586 + xxiv; illustrated. DM. 40.) Stuttgart: Georg Thieme. 1965.

Nervous Control of the Heart. Edited by Walter C. Randall, M.D. (Pp. 251 + xx; illustrated. 90s.) Baltimore: Williams and Wilkins. Edinburgh: E. & S. Livingstone. 1965.

Immunopathology of Uveitis. Symposium, New York, 1963. Edited by A. E. Maumenee, M.D., and Arthur M. Silverstein, Ph.D. (Pp. 261 + x; illustrated. 52s.) Edinburgh: E. & S. Livingstone. 1965.

The Penicillin Group of Drugs. By Gordon T. Stewart. (Pp. 212 + xii. 55s.) London, Amsterdam, and New York: Elsevier. 1965.

Radiographic Photography. By D. Noreen Chesney, Hon.F.S.R., T.E., S.R.R., and Muriel O. Chesney, F.S.R., T.E., S.R.R. (Pp. 453 + xiii; illustrated 50s.) Oxford: Blackwell. 1965.

Homer William Smith, Sc.D. His Scientific and Literary Achievements. Edited by Herbert Chasis, M.D., and William Goldring, M.D. (Pp. 282 + x; illustrated. \$4.00.) New York: University Press. 1965.

A Child is Born. Photographs by Ronald Sweering. Text by Ann Dally, M.A., M.B., B.S., D.Obst.R.C.O.G. Foreword by Josephine Barnes, M.A., D.M., M.R.C.P., F.R.C.S., F.R.C.O.G. (38 large plates. 25s.) London: Peter Owen. 1965.

Refraction. A Programmed Text. By Robert D. Reinecke, M.D., and Robert J. Herm, M.D. Foreword by Albert F. Sloane, M.D. (Pp. 336; illustrated. With Stereo Viewer and Panel Book. \$12.50.) New York: Appleton-Century-Crofts. 1965.

Diagnosis of Heart Disease. Audio-Textbooks of Medicine. By Jürgen Schmidt-Voigt. 1. Cardiac Arrhythmias. (Pp. 19; illustrated + gramophone record.) 2. Cardiac Murmurs. (Pp. 16; illustrated + gramophone record.) 3. Heart Sounds. (Pp. 26; illustrated + gramophone record. Set of 3 in case £3 10s.) Eindhoven: Centrex Publishing Company. 1964.

Physical Medicine in Paediatrics. Edited by Basil Kiernander, M.B., B.S., M.R.C.P., D.M.R.E., D.Phys.Med. (Pp. 231 + viii; illustrated. 65s.) London: Butterworth. 1965.

Outline of Physiology. 2nd edition. By L. L. Langley, Ph.D., LL.B. (Pp. 532 + x; illustrated. 48s.) New York, Toronto, Sydney, and London: McGraw-Hill. 1965.

The Pharmacologic Principles of Medical Practice. 6th edition. By John C. Krantz, Jr., and C. Jelleff Carr. (Pp. 994 + viii; illustrated. £5 18s.) Edinburgh: E. & S. Livingstone. 1965.

Praktische Gastroenterologie. By Dr. Ernst Hafer. (Pp. 554 + xi; illustrated. DM. 64.) Stuttgart: Georg Thieme. 1965.

Anatomy and Surgical Technique of Groin Dissection. By John S. Spratt, Jr., M.D., F.A.C.S., William Shieber, M.D., F.A.C.S., and Burl Mayes Dillard, M.D. (Pp. 97 + xvi; illustrated. 73s. 6d.) London: Henry Kimpton. 1965.

Virus- und Rickettsieninfektionen des Menschen. By Professor Richard Haas and Professor Oskar Vivell. (Pp. 1048 + xxiv; illustrated. DM. 180.) Munich: J. F. Lehmanns. 1965.

Spinal Cord Diseases: A Radiologic and Myelographic Analysis. By Guido Lombardi, M.D., and Angelo Passerini, M.D. (Pp. 175 + x; illustrated. 72s.) Edinburgh: E. & S. Livingstone. 1965.

Physiology or Medicine. Nobel Lectures 1922-1941. (Pp. 546 + xii; illustrated. £8.) Amsterdam, London, and New York: Elsevier. 1965.

Applied Hypnosis and Positive Suggestion. By George A. Ulett, B.A., M.S., M.D., Ph.D., and Donald B. Peterson, M.D. (Pp. 134. 63s.) London: Henry Kimpton. Saint Louis: C. V. Mosby. 1965.

The Great Thames Disaster. By Gavin Thurston. (Pp. 173; illustrated. 32s.) London: George Allen & Unwin. 1965.

The Evolution of Genetics. By Arnold W. Ravin. (Pp. 216 + x. Paper 21s. Cloth 48s.) New York: Academic Press. 1965.

Bibliography of the History of Medicine of the United States and Canada, 1939-1960. Edited by Genevieve Miller. (Pp. 428 + xvi; 80s.) London: Oxford University Press. 1965.

Need I Ever Retire? Advice from William Evans, M.D., D.Sc., F.R.C.P. (Pp. 24. 5s.) London: Chest and Heart Association. 1965.

Elderly Employed. A Report on Elderly People Who are in Employment. By Douglas R. Snellgrove, Ph.D., M.Sc., M.R.C.S., L.R.C.P., A.R.I.C. (Pp. 71. 10s.) Luton: White Crescent Press. 1965.