

excellent statements of the problems of pressures and flows in the kidney, by Winton, and the process of secretion, by Bayliss, to an interesting discussion of genetic aspects of tubular function, by H. Harris.

Bayliss' excellent paper, along with Rosenberg's discussion of active transport in the eighth symposium volume of the Society of Experimental Biology, should supply both students and investigators alike with an excellent reference statement of this complex field. Winton's lecture is also outstanding, containing critical discussions, not only of his own classical work on intrarenal pressures, but also the just published work of Gottschalk and Mylle on pressures in the proximal tubules and peritubular capillaries and their relation to ureteral and renal venous pressures. Here also one finds the new work of Kintner and Pappenheimer on renal hemodynamics critically discussed. Thus the book in many aspects is very contemporary.

The errors in this book are few, and it is almost to dwell on minutiae to point out one of them. One would hope that in a future edition Grace Eggelton would refer to B. Schmidt-Nielsen, the distinguished daughter of August Krogh, according to her womanly due as "she" instead of "he," as she does on page 54. Along with Homer Smith's classic monographs, Robinson's *Reflections on the Kidney* and Cushny's own classic book, this book should be a useful and up-to-date addition to the working library of all those whose interests touch this fascinating field.

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Books Reviewed in

The Scientific Monthly, December

The Laws of Nature, R. E. Peierls (Scribner's). Reviewed by J. Turner.

The Men behind the Space Rockets, H. Gartmann (McKay). Reviewed by H. Yagoda.

Genetics in the Atomic Age, C. Auerbach (Essential Books). Reviewed by B. Glass.

Public Works and Employment from the Local Government Point of View, E. C. McKean and H. C. Taylor (Public Administration Service, Chicago). Reviewed by D. P. Ray.

A Field Guide to the Ferns and Their Related Families of Northeastern and Central North America with a Section on Species also Found in the British Isles and Western Europe, B. Cobb (Houghton Mifflin). Reviewed by L. J. and M. Milne.

The Condensed Chemical Dictionary, A. and E. Rose (Reinhold; Chapman and Hall).

International Encyclopedia of Unified Science, vol. 1, pts. 1 and 2, O. Neurath,

R. Carnap, C. Morris, Eds. (University of Chicago Press). Reviewed by J. A. Behnke.

An Essay on the Foundations of Geometry, B. A. W. Russell (Dover).

Investigation on the Theory of the Brownian Movement, A. Einstein, R. Furth, Ed. (Dover).

Organization of the Federal Government for Scientific Activities (National Science Foundation).

Robert Hooke, M. 'Espinasse (University of California Press). Reviewed by R. P. Multhauf.

New Books

Proceedings of the Third Berkeley Symposium on Mathematical Statistics and Probability. Held at the Statistical Laboratory, University of California, December, 1954, July and August, 1955. vol. I, *Contributions to the Theory of Statistics*. 208 pp. \$6. vol. III, *Contributions to Astronomy and Physics*. 252 pp. \$6.25. Jerzy Neyman, Ed. University of California Press, Berkeley, 1956.

Psychology, Psychiatry and the Public Interest. Maurice H. Drout, Ed. University of Minnesota Press, Minneapolis, 1956. 217 pp. \$4.

Handbuch der Physik. Band XVII, *Dielectrics*. S. Flugge, Ed. Springer, Berlin, 1956. 406 pp. DM. 94.

Economic Analysis. Edmund Whittaker. Wiley, New York; Chapman & Hall, London, 1956. 460 pp. \$6.50.

The Oscilloscope at Work. A. Haas and R. W. Hallows. Iliffe, London; Philosophical Library, New York, 1956. 171 pp. \$10.

Physical Chemistry for Students of Pharmacy and Biology. S. C. Wallwork. Longmans, Green, New York, 1956. 307 pp. \$5.

Reference Data for Radio Engineers. International Telephone and Telegraph Corp., New York, ed. 4, 1956. 1121 pp. \$6.

New Era of Flight. Aeronautics simplified. Lewis Zarem and Robert H. Maltby. Dutton, New York, 1956. 176 pp. \$3.75.

Composition and Properties of Concrete. George E. Troxell and Harmer E. Davis. With chapters on "Proportioning of concrete mixtures" and "Strength of concrete" by J. W. Kelly. McGraw-Hill, New York, 1956. 434 pp. \$7.75.

Atomic Weapons and East-West Relations. P. M. S. Blackett. Cambridge University Press, New York, 1956. 107 pp. \$2.

Men with Golden Hands. A book of surgical miracles. E. H. G. Lutz. Translated by W. H. Johnson. Appleton-Century-Crofts, New York, 1956. 269 pp. \$3.75.

Personal Character and Cultural Milieu. A collection of readings. Compiled and edited by Douglas G. Haring. Syracuse University Press, Syracuse, N.Y., rev. ed. 3, 1956. 834 pp. \$7.50.

Handbook of Biological Data. William S. Spector, Ed. Prepared under the direction of the Committee on the Handbook of Biological Data. Saunders, Philadelphia, 1956. 584 pp. \$7.50.

Organo-Metallic Compounds. G. E. Coates. Methuen, London; Wiley, New York, 1956. 197 pp. \$2.50.

Calder Hall. The story of Britain's first atomic power station. Kenneth Jay. Harcourt, Brace, New York, 1956. 88 pp. \$3.

Smithsonian Institution, Annual Report of the Board of Regents. Showing the operations, expenditures, and condition of the Institution for the year ended 30 June 1955. Smithsonian Institution, Washington, 1956. 537 pp. \$4.

Medical Sciences. Series VII, *Progress in Nuclear Energy*. J. C. Bugher, J. Coursaget, and J. F. Loutit, Eds. McGraw-Hill, New York; Pergamon, London, 1956. 165 pp. \$6.

Physiology of the Ocular and Cerebrospinal Fluids. Hugg Davson. Little, Brown, Boston, 1956. 388 pp. \$14.

Special Lectures in Biochemistry, 1954-1955. University College, London, 1956 (order from H. K. Lewis, P.O. Box 66, London, W.C.1). 106 pp. 12s. 6d.

The World of Learning, 1956. Europa Publications, London, ed. 7, 1956. 1064 pp. \$18.50.

Personality, Stress and Tuberculosis. Phineas J. Sparer. International Universities Press, New York, 1956. 629 pp. \$12.50.

Modern Mathematics for the Engineer. Edwin F. Beckenbach, Ed. McGraw-Hill, New York, 1956. 514 pp. \$7.50.

Treatise on Inorganic Chemistry. vol. II. *Sub-Groups of the Periodic Table and General Topics*. H. Remy. Translated by J. S. Anderson. J. Kleinberg, Ed. Elsevier, Amsterdam-Princeton, 1956. 800 pp. \$17.75.

Soil Fertility and Fertilizers. Samuel L. Tisdale and Werner L. Nelson. Macmillan, New York, 1956. 430 pp. \$7.75.

The Chemistry of Petrochemicals. Melvin J. Astle. Reinhold, New York; Chapman & Hall, London, 1956. 267 pp. \$6.50.

Miscellaneous Publications

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

An Outline for the Study of an Amphibian Life History. Tulane Studies in Zoology, vol. 4, No. 3. Fred R. Cagle. Tulane University, New Orleans, La., 1956. 32 pp. \$0.40.

Selected ASTM Engineering Materials Standards for Use in College Curricula. American Society for Testing Materials, Philadelphia, 1956. 358 pp. \$4; Students, \$1.50.

Psychologic Aspects in the Care of Infants and Children. Report of the twenty-first Ross Pediatric Research Conference. Ross Laboratories, Columbus, Ohio, 1956. 90 pp.

Research Report, Land Locomotion Research Laboratory. No. 4. Detroit Arsenal, Center Line, Mich., 1956. 55 pp.

A Direct Determination of the Gamma Emission from a PO-BE Source. Rept. No. 56-59. Henry M. Borella, Sanford C. Sigoloff, Loren C. Logie. Air University, School of Aviation Medicine, USAF, Randolph Air Force Base, Texas, 1956. 4 pp.