

tane caddisfly families in a small order of insects (5000 species), should prove of great interest and should stimulate much needed research.

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**Lectures in Immunochemistry.** Michael Heidelberger. Academic Press, New York, 1956. 150 pp. \$4.

The major portion of this book is devoted to a series of six lectures delivered by the author in Tokyo during the fall of 1955. In this group of readable lectures, Michael Heidelberger has reviewed his contributions and those of his students and collaborators to the field of immunochemistry since his pioneer work with the late O. T. Avery on the isolation of the capsular polysaccharides of the pneumococcus, in the early 1920's. It seems hard to realize that, at the time this work was begun, most immunological reactions were regarded as changes in "colloidal states," and that antibodies were looked upon more as properties of body fluids than as actual substances that could be isolated, weighed, and measured.

It is largely owing to the work of Heidelberger and his students that immunology has become a precise science in which the specific reactions involved can be isolated and studied by the elegant quantitative methods which they developed. In fact, this development has now reached the point where immunochemical methods can be used to guide the chemist in determining the structure and configuration of large and complex molecules such as the polysaccharides.

These lectures constitute a clear and readable course in immunochemistry and can be highly recommended to anyone who wishes to familiarize himself with the development and potentialities of this field. The Tokyo lectures were prepared from a transcription of recordings and, in places, have not been carefully edited. Yet it is perhaps this very fault which helps to give this book the air of informality and simplicity which is its charm.

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## New Books

*Les Principes de l'Électrophorese.* René Audubert and Serge de Mende. Presses Universitaires de France, Paris, 1957. 201 pp. F. 1500.

*Man Unlimited.* Technology's challenge to human endurance. Heinz Gartmann. Translated by Richard and Clara Winston. Pantheon, New York, 1957. 213 pp. \$4.50.

*Proceedings of the International Wool Textile Research Conference, Australia, 1955.* vol. F, *Histology of Wool and Hair and of the Wool Follicle.* Commonwealth Scientific and Industrial Research Organization, Australia, Melbourne, 1956. 228 pp.

*The Effect of Exposure to the Atomic Bombs on Pregnancy Termination in Hiroshima and Nagasaki.* Publ. No. 461. J. V. Neel and W. J. Schull. Atomic Bomb Casualty Commission, National Academy of Sciences-National Research Council, Washington, 1956. 241 pp. \$2.

*Wisconsin's Renewable Resources.* James A. Larsen. University of Wisconsin, Madison, 1956. 160 pp.

*Statistical Analysis of Stationary Time Series.* Ulf Grenander and Murray Rosenblatt. Wiley, New York; Almqvist & Wiksell, Stockholm, 1957. 300 pp. \$11.

*Water for Industry.* A symposium presented on 29 December 1953 at the Boston meeting of the American Association for the Advancement of Science. Publ. No. 45. Jack B. Graham and Meredith F. Burrell, Eds. American Association for the Advancement of Science, Washington 5, 1956. 131 pp. Members, \$3.25; nonmembers, \$3.75.

*Production Forecasting, Planning, and Control.* E. H. MacNiece. Wiley, New York; Chapman & Hall, London, ed. 2, 1957. 374 pp. \$8.25.

*Venoms.* Papers presented at the First International Conference on Venoms, 27-30 December 1954, at the annual meeting of the American Association for the Advancement of Science, Berkeley, California. Publ. No. 44. Eleanor E. Buckley and Nandor Porges. American Association for the Advancement of Science, Washington 5, 1956. 467 pp. Members, \$8.25; nonmembers, \$9.50.

*Animal Navigation.* How animals find their way about. J. D. Carthy. Scribner's, New York, 1956. 151 pp. \$3.95.

*Table of the Fresnel Integral to Six Decimal Places.* Compiled by T. Pearcey for the Commonwealth Scientific and Industrial Research Organization, Australia. Cambridge University Press, London, 1956 (order from Cambridge University Press, New York). 63 pp. \$2.50.

*The New World of the Atom.* James Stokley. Ives Washburn, New York, 1957. 288 pp. \$5.50.

*Aeroplanes and Aero-Engines.* J. H. Clark, J. Crawley, B. A. J. Hatton, R. J. Way, R. Wood. Philosophical Library, New York, ed. 4, 1956. \$6.

*Landslides in Clays.* Alexandre Collin. Translated by W. R. Schriever. University of Toronto Press, Toronto, Canada, 1956. 160 pp. \$6.50.

*Semimicro Qualitative Organic Analysis.* The systematic identification of organic compounds. Nicholas D. Cheronis and John B. Entrikin. Interscience, New York, ed. 2, 1957. 744 pp. \$9.

*Notes on Atomic Energy for Medical Officers.* An introduction to the subject for service and other medical officers who may be concerned with defense against atomic bombs and similar problems. Royal Naval Medical School. Philosophical Library, New York, 1956. 169 pp. \$4.75.

*Molecules and Crystals in Inorganic Chemistry.* A. E. Van Arkel. Interscience, New York; Butterworths, London, ed. 2, 1956. 270 pp. \$4.75.

## Miscellaneous Publications

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

*W. K. Kellogg Foundation Report for 1955-1956.* The Foundation, Battle Creek, Mich., 1957. 253 pp.

*Archeology of the Funeral Mound Ocmulgee National Monument, Georgia.* Archeological Research Series No. 3. Charles H. Fairbanks, National Park Service, U.S. Department of the Interior, Washington, 1956 (order from Supt. of Documents, GPO, Washington 25). 95 pp. \$1.

*Technological Advances and Skilled Manpower.* Implications for trade and industrial education, an annotated selected bibliography. Misc. 3509. U.S. Office of Education, Washington, rev. ed., 1956 (order from Supt. of Documents, GPO, Washington 25). 67 pp. \$0.45.

*Directory of Organization and Field Activities of the Department of Agriculture, 1956.* Agriculture Handbook No. 76. U.S. Department of Agriculture, Washington, 1956 (order from Supt. of Documents, GPO, Washington 25). 206 pp. \$0.55.

*Science and the Humanities.* Rickman Godlee lecture. Gavin de Beer. Lewis, London, 1956 (for University College, London and University College Hospital Medical School). 21 pp. 2s. 6d.

*The Intrinsic Embryonic Development.* Verhandeligen der Koninklijke Nederlandse Akademie van Wetenschappen, Afd. Natuurkunde, vol. LI, No. 2. G. Ten Cate. North-Holland, Amsterdam, 1956. 257 pp. Fl. 15.

*Vibration Analysis Tables.* R. E. D. Bishop and D. C. Johnson. Cambridge University Press, London, 1956 (order from Cambridge University Press, New York). 59 pp. \$2.

*Keys and Bibliography to the Collem-bola.* Zoology Publs. No. 20. J. T. Salmon. Victoria University College, Wellington, N.Z., 1956 (distributed on exchange basis by the Department of Zoology). 35 pp.

*The Development of Polish Science, 1945-1955.* Bogdan Suchodolski and Eugeniusz Olszewski. Polonia, Warsaw, 1956. 91 pp.

*Genetic Studies with Bacteria.* Publ. 612. M. Demerec et al. Carnegie Institution of Washington, Washington, D.C., 1956. 136 pp. Paper, \$0.80; cloth, \$1.

*Diatomaceous Earth in Arizona.* A field and laboratory report. John T. Long, Jr., and George G. Olson. Arizona Development Board, Phoenix, 1956. 28 pp.

*Armour Research Foundation of Illinois Institute of Technology, Annual Report, 1956.* The Foundation, Chicago 16, 1957. 52 pp.

*The Indian Association for the Cultivation of Science, Annual Report 1955-1956.* The Association, Jadavpur, Calcutta, 32, 1956. 81 pp.