

pumps, Soxhlet extractors, and so forth. Each chapter contains a large list of references, which may be very useful when more detailed information is needed.

Written primarily for British readers, the book not only contains information on many kinds of glass rarely seen in the United States but also stresses many precautions which have to be observed in order to handle these glasses successfully. The American reader, who uses Pyrex glass almost exclusively, will be able to achieve many of the same results with somewhat simpler methods. Since, however, a little excess of care is by no means harmful, the research worker who has to get along without the assistance of a professional glass blower will be well advised to begin his attempts at glass-working by following the methods which the authors of this very readable volume have described with great clarity and care.

I. ESTERMANN

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**Mathematical Analysis.** A modern approach to advanced calculus. Tom M. Apostol. Addison-Wesley, Reading, Mass., 1957. xii + 553 pp. \$8.50.

The viewpoint of this textbook is excellently summarized by its subtitle, "A modern approach to advanced calculus." The material is serious substantial mathematics; topics traditionally from advanced calculus are supplemented with extra background for function theory. The author states his aim to be a development which is "honest, rigorous, up-to-date, and . . . not too pedantic." As examples of the level of difficulty, functions of several variables are treated as functions of a vector, and integration theory is Riemann-Stieltjes. Each of the 16 chapters is concluded with a liberal supply of provocative, meaty exercises. Many of these significantly extend the theoretical development or provide meaningful examples and counterexamples; a few include hints for solution.

The style is unusually readable. Definitions, theorems, proofs, notes are clearly marked. Proofs are selected for brevity and forcefulness. The author displays a knack for breaking the development into proper sized bits for easy handling by the student. Many theorems are accompanied by a note explaining how the facet described in the theorem fits into the structure. The printing is superior, the proofreading almost flawless; the only error in content noted is in definition 8-16. This book is difficult for a weak class but should be thoroughly appreciated as a text for the strong students.

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## New Books

*Urine and Urinary Sediment.* A practical manual and atlas. Richard W. Lippman. Thomas, Springfield, Ill., ed. 2, 1957. 149 pp. \$8.50.

*Pre-Employment Disability Evaluation.* Detailed policies regarding applicants applying for employment with special reference to various disabilities. William A. Kellogg. Thomas, Springfield, Ill., 1957. 170 pp. \$10.50.

*Applied Optics and Optical Design.* A. E. Conrady. Dover, New York, 1957 (unabridged and corrected edition of ed. 1). 527 pp. \$2.95.

*Biochemistry of Some Peptide and Steroid Antibiotics.* E. P. Abraham. Wiley, New York; Chapman & Hall, London, 1957. 107 pp. \$3.

*Clinical and Immunologic Aspects of Fungous Diseases.* J. Walter Wilson. Thomas, Springfield, Ill., 1957. 299 pp. \$6.75.

*Practical Clinical Chemistry.* A guide for technicians. Alma Hiller. Thomas, Springfield, Ill., 1957. 282 pp. \$6.50.

*Verbal Behavior.* B. F. Skinner. Appleton-Century-Crofts, New York, 1957. 488 pp. \$5.50.

*The Tao of Science.* An essay on Western knowledge and Eastern wisdom. R. G. H. Siu. Technology Press, Massachusetts Institute of Technology; Wiley, New York; Chapman & Hall, London, 1957. 196 pp. \$4.25.

*Year of Crisis.* Communist propaganda activities in 1956. Evron M. Kirkpatrick, Ed. Macmillan, New York, 1957. 434 pp. \$5.50.

*General Zoology.* Mary J. Guthrie and John M. Anderson. Wiley, New York; Chapman & Hall, London, 1957. 723 pp. \$7.50.

*Pleistocene Man at San Diego.* George F. Carter. Johns Hopkins Press, Baltimore, 1957. 416 pp. \$8.

*Techniques of Magnetic Recording.* Joel Tall. With chapter 7, "Recording Sound in Nature," by Peter Paul Kellogg. Macmillan, New York, 1958. 495 pp. \$7.95.

*Heat Transfer.* vol. II. Max Jakob. Technical and editorial assistance by Stothe Peter Kezios. Wiley, New York; Chapman & Hall, London, 1957. 684 pp. \$15.

*Annual Review of Nuclear Science.* vol. 7. James G. Beckerley, Ed. Annual Reviews, Palo Alto, Calif., 1957. 504 pp. \$7.

*Animal Behavior.* John Paul Scott. University of Chicago Press, Chicago, 1958. 292 pp. \$5.

*Cortisone Therapy.* Mainly applied to the rheumatic diseases. J. H. Glyn. Philosophical Library, New York, 1957. 172 pp. \$10.

*Geography in the Twentieth Century.* A study of growth, fields, techniques, aims, and trends. Griffith Taylor, Ed. Philosophical Library, New York; Methuen, London, ed. 3, 1957. 685 pp. \$10.

*Long, Long Ago.* Mary Lou Clark. Pageant Press, New York, 1957. 37 pp. \$2.

*Around the World in 90 Minutes.* The fabulous true story of the man-made moons. David O. Woodbury. Harcourt, Brace, New York, 1958. 269 pp. \$5.75.

*Hypnography.* A study in the therapeutic use of hypnotic painting. Ainslie Meares. Thomas, Springfield, Ill., 1957. 279 pp. \$7.75.

*Human Relations in Industrial Research Management.* Including papers from the sixth and seventh annual conferences on industrial research, Columbia University, 1955 and 1956. Robert Teviot Livingston and Stanley H. Milberg, Eds. Columbia University Press, New York, 1957. 429 pp. \$8.50.

*Toward the Liberally Educated Executive.* Robert A. Goldwin, Ed. Fund for Adult Education, White Plains, N.Y., 1957. 122 pp.

*High-Talent Manpower for Science and Industry.* An appraisal of policy at home and abroad. J. Douglas Brown and Frederick Harbison. Princeton University, Princeton, N.J., 1957. 95 pp. \$3.

*Nationalism in Colonial Africa.* Thomas Hodgkin. New York University Press, New York, 1957. 216 pp. \$3.75.

*Solid State Physics.* Advances in research and applications. vol. 5. Frederick Seitz and David Turnbull, Eds. Academic Press, New York, 1957. 470 pp. \$11.

## Miscellaneous Publications

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

*Men, Steel, and Technical Change.* Industrial Research Section, Department of Social Science, University of Liverpool. Department of Scientific and Industrial Research, London, 1957 (order from Her Majesty's Stationery Office). 36 pp. \$0.36.

*The Phylogeny and Classification of the North American Genera of the Suborder Tubulifera (Thysanoptera).* Illinois Biological Monographs No. 25. Lewis J. Stannard, Jr. University of Illinois Press, Urbana, 1957. 200 pp. Paper, \$2.50; cloth, \$3.50.

*Queensland Institute of Medical Research, Twelfth Annual Report of the Council of the Institute for the Year ended 30 June 1957.* The Institute, Brisbane, Australia, 18 pp.

*The Blood Lipids and the Clearing Factor.* Third International Conference on Biochemical Problems of Lipids, 26-28 July 1956. Koninklijke Vlaamse Academie voor Wetenschappen, Letteren en Schone Kunsten van België, Brussels, Belgium, 1957. 418 pp.

*Photography Through the Microscope.* Kodak Publ. No. P-2, ed. 2. 72 pp. \$0.75. *Abridged Scientific Publications from the Kodak Research Laboratories.* vol. XXXIII, 1951. 620 pp. Eastman Kodak Co., Rochester, N.Y., 1957.

*Institute of Medical and Veterinary Science (South Australia), Eighteenth Annual Report of the Council, July 1955-June 1956.* The Institute, Adelaide, Australia, 1957. 109 pp.

*Agriculture and the Yearbook of Agriculture, 1849-1957.* Office of Information, U.S. Department of Agriculture, Washington 25, 1957. 64 pp.

*Looking Ahead in Fuels for Automotive Transportation.* Society of Automotive Engineers, New York 17, 1957. 32 pp.