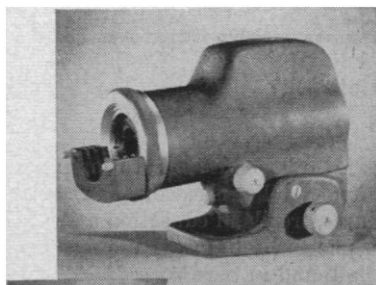
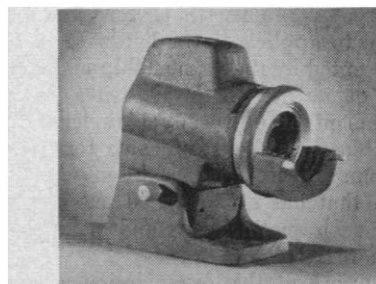


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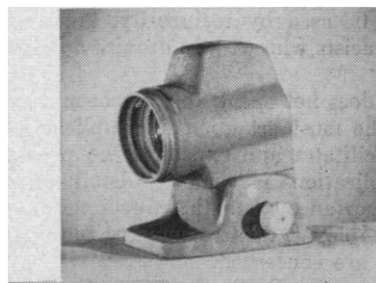
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(175) of the various pieces of standard equipment. References to the catalogue of Greiner and Friedrichs are supplemented by the numbers of the German standards (D.I.N.). The present trend toward the standardization of laboratory equipment and the manufacture of exchangeable parts will make this book valuable to everyone interested in the manufacture and use of chemical equipment.

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**Practical Physiological Chemistry.** Philip B. Hawk, Bernard L. Oser, and William H. Summerson. Blakiston (McGraw-Hill), New York, ed. 13, 1954. xvi + 1439 pp. Illus. \$12.

The appearance of the 13th edition of *Practical Physiological Chemistry* by Hawk, Oser, and Summerson is a landmark in physiological chemistry, since this marks the 50th anniversary of a book which has been of inestimable value to laboratory workers in biochemistry and allied fields. The impressive list of collaborators includes workers of prominence in many fields of biochemistry.

In general, the organization of material has remained the same as in earlier editions, but the book has been completely reset in a more readable form. This is especially true of experimental procedures. The use of chapter numbers on each page will be of great assistance as there are numerous references to previous chapters. Although several chapters were rewritten, most were not, but rather the sections were expanded by discussions of new developments introduced at appropriate places. This method of revision has limitations, but in general has proved more satisfactory than might be expected.

Inclusion of new developments and concepts has increased the size by 116 pages. Little of the material from previous editions has been deleted and many of the classical experiments that were carried on into this edition are of greater historical than practical interest. One might question the necessity for including the procedural details for all these tests. This new edition contains many experiments covering modern developments in biochemistry, such as paper and column chromatography, microbiological methods, use of radioisotopes, and countercurrent distribution. Two new additions of interest to clinical laboratories are the sections on liver-function tests and micromethods in clinical chemistry. It is regrettable that greater recognition was not given to the microgasometric techniques developed by Scholander and coworkers.

Although nearly half of the 13th edition is devoted to textual material, it is probable that this book will continue to find its greatest use as a laboratory manual and reference for experimental biochemistry.

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## New Books

**Electroplating Engineering Handbook.** A. Kenneth Graham, Ed.; H. L. Pinkerton, Asst. Ed. Reinhold, New York 22, 1955. 650 pp. \$10.

**The Psychiatrist and the Dying Patient.** K. R. Eissler. International Universities Press, New York 11, 1955. 338 pp. \$5.

**Mosquitoes.** Their bionomics and relation to disease. William R. Horsfall. Ronald Press, New York 10, 1955. 723 pp. \$16.

**Proto-Lima.** A Middle period culture of Peru. A. L. Kroeber. Fieldiana: Anthropology, vol. 44, No. 1. Chicago Natural History Museum, Chicago, 1954. 157 pp. Paper, \$4.

**Laboratory Manual for Histology.** J. F. Smithcoors. Burgess, Minneapolis 15, 1954. 101 pp. Paper, \$3.

**Proceedings of the Conference on Auroral Physics.** N. C. Gerson, T. J. Keneshea, and R. J. Donaldson, Jr., Eds. Geophysical Research Papers, No. 30. Sponsored by Dept. of Physics, Univ. of Western Ontario, and Geophysics Research Directorate, Air Force Cambridge Research Center, 1954 (Order from U.S. Dept. of Commerce, Office of Tech. Services, Washington 25). 450 pp.

**Le Magnétisme des corps célestes**, vol. 3, *Les Aurores polaires et la luminescence nocturne*. pt. IV of *Physique cosmique*. A. Dauvillier. Hermann, Paris, 1954. 142 pp.

**Abstracts of the Literature on Semiconducting and Luminescent Materials and Their Applications.** 1953 issue. Compiled by Battelle Memorial Inst. Wiley, New York 16; Chapman & Hall, London, 1955. 169 pp. Paper, \$5.

**National Advisory Committee on Research in the Geological Sciences, Fourth Annual Report 1953-54.** Including survey of current research in the geological sciences in Canada, 1953-54. Geological Survey of Canada, Dept. of Mines and Technical Surveys, Ottawa, 1954. 117 pp. Paper, \$0.50.

**Laboratory Explorations in General Zoology.** Karl A. Stiles. Macmillan, New York 11, ed. 3, 1955. 291 pp. Paper, \$3.75.

**Insanity, Art and Culture.** Francis Reitman. Philosophical Library, New York, 1954. 111 pp. \$3.75.

**Grundriss der Allgemeinen Zoologie.** Alfred Kuhn. Thieme, Stuttgart, Germany, ed. 11, 1955 (Order from Intercontinental Medical Book Corp., New York 16). 281 pp. \$3.95.

**Lectures on Partial Differential Equations.** I. G. Petrovsky. Trans. by A. Shenitzer. Interscience, New York-London, Engl. ed. 1, 1954. 245 pp. \$5.75.

**An Introduction to Plant Taxonomy.** George H. M. Lawrence. Macmillan, New York 11, 1955. 179 pp. \$3.25.

**The Language of Social Research.** A reader in the methodology of social research. Paul F. Lazarsfeld and Morris Rosenberg, Eds. Free Press, Glencoe, Ill., 1955. 590 pp. \$6.75.

**The Human Organisms.** Russell Myles De Coursey. McGraw-Hill, New York-London, 1955. 550 pp. \$5.75.

**Contributions to the Theory of Partial Differential Equations.** Annals of Mathematics Studies, No. 33. L. Bers, S. Bochner, and F. John, Eds. Princeton Univ. Press, Princeton, N.J., 1954. 257 pp. Paper, \$4.

**The Volcanic Rocks of the Ross Archipelago.** W. Campbell Smith. British Antarctic ("Terra Nova") Expedition, 1910, Natural History Rpt., Geology, vol. II, No. 1 British Museum (Natural History), London, S.W.7, 1954. 107 pp. Paper, £3.

**Conflict.** George Simmel. Chap. 4, "Der Streit," ed. 3 of *Soziologie*, 1923; trans. by Kurt H. Wolff. *The Web of Group-Affiliations*. George Simmel. Chapter on "Die Kreuzung sozialer Kreise," *Soziologie*, 1922; trans. by Reinhard Bendix. Free Press, Glencoe, Ill., 1955. 195 pp. \$3.50.

**A Manual of Paper Chromatography and Paper Electrophoresis.** Richard J. Block, Emmett L. Durrum, and Gunter Zweig. Academic Press, New York 10, 1955. 484 pp. \$8.

**Anthropological Papers.** Nos. 43-48. Bull. 157. Bur. of American Ethnology, Smithsonian Institution, Washington, 1955 (Order from Supt. of Documents, GPO, Washington 25). 415 pp. Paper, \$2.75.

**The Fossil Evidence for Human Evolution.** An Introduction to the study of paleoanthropology. W. E. Le Gros Clark. Univ. of Chicago Press, Chicago 37, 1955. 181 pp. \$6.

**6-Mercaptopurine.** vol. 60, art. 2, *Annals of the New York Acad. of Sciences*. Roy Waldo Miner, Ed. The Academy, New York 21, 1954. 325 pp. Illus. Paper, \$4.50.

**Variable Stars and Galactic Structure.** Cecilia Payne-Gaposchkin. Athlone Press, Univ. of London, London, W.C. 1, 1954 (U.S. Distrib.: de Graff, New York 10). 116 pp. \$3.50.

**The Medical Care of the Aged and Chronically Ill.** With particular emphasis on degenerative disorders, advanced cancer and other as yet incurable diseases. Freddy Homburger. Little-Brown, Boston, 1955. 253 pp. \$5.75.

**The Harvey Lectures.** Ser. 49 (1953-1954). Academic Press, New York 10, 1955. 299 pp. \$7.50.

**Baruch Spinoza and Western Democracy.** An interpretation of his philosophical, religious and political thought. Joseph Dunner. Philosophical Library, New York 16, 1955. 142 pp. \$3.

**Atoms for Peace.** David O. Woodbury. Dodd, Mead, New York, 1955. 259 pp. \$3.50.

**La Mécanique au XVII<sup>e</sup> Siècle (des antécédents scolastiques à la pensée classique).** René Dugas Dunod, Éditeur, Paris 6, 1954. 620 pp.

**Land-Use in the Ramah Area of New Mexico.** An anthropological approach to areal study. John L. Landgraf. Rpts. of the Ramah Project, No. 5. vol. XLII, No. 1, Papers of the Peabody Museum of American Archaeology and Ethnology, Harvard Univ. The Museum, Harvard Univ., Cambridge 38, 1954. 98 pp. Paper, \$1.65.

**Physicochemical Calculations.** E. A. Guggenheim and J. E. Prue. Ser. in Physics, J. De Boer, H. Brinkman, and H. B. G. Casimir, General Eds. Interscience, New York 1; North-Holland, Amsterdam, 1955. 491 pp.

**The Greatest Puzzle of All.** Clarkson Dye. Westside Pub. Saratoga, Calif., 1954. 77 pp.

**A Laboratory Manual for Soil Fertility Students.** Darrell A. Russel and George Stanford. Brown, Dubuque, Ia., ed. 2, 1954. 59 pp. Paper, \$2.

**Patent Law in the Research Laboratory.** John Kenneth Wise. Reinhold, New York 22; Chapman & Hall, London, 1955. 145 pp. \$2.95.

**Mental Health and Mental Disorder.** A sociological approach. Prepared for a committee of the Society for the Study of Social Problems. Arnold M. Rose, Ed. Norton, New York 3, 1955. 626 pp. \$6.50.

**The Romance of Trees in Fact and Fancy.** Mary Funk Hazel. The author, 1717 R St., N.W., Washington, D.C., 1955. 117 pp. Paper, \$2.50.

## Miscellaneous Publications

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

**Mass Differences.** A compilation of experimental atomic mass differences found from beta decay, reaction energies, microwave data, alpha decay, and mass doublets. Nuclear Science Ser., Rpt. No. 16. Natl. Acad. of Sciences-Natl. Research Council, Washington 25, 1954. 145 pp.

**Photographic Dosimetry of X- and Gamma Rays.** Handbook 57. Margarete Ehrlich. Natl. Bur. of Standards, Washington 25, 1954 (Order from Supt. of Documents, GPO, Washington 25). 28 pp. \$0.15.

**Kausalität, Teleologie und Willensfreiheit als Problemkomplex der Naturphilosophie.** Sitzungsberichte der Deutschen Akademie der Wissenschaften zu Berlin, Klasse für Mathematik und allgemeine Naturwissenschaften, Jahrgang 1954, No. 1. Hans Ertel. Akademie-Verlag, Berlin, 1954. 29 pp. DM. 1.70.

**The 57th Report on Food Products and the 45th Report on Drug Products, 1952.** Bull. 585. H. J. Fisher. Connecticut Agr. Expt. Sta., New Haven, 1954. 77 pp.

**A Revision of Some Glanduline nodosariidae (Foraminifera).** Misc. Coll., vol. 126, No. 3. Alfred R. Loeblich, Jr., and Helen Tappan. Smithsonian Institution, Washington 25, 1955. 9 pp.

**Trials with Introduced Linseed Varieties in Southern Queensland.** Div. of Plant Industry Tech. Paper No. 3. S. G. Gray. Commonwealth Scientific and Industrial Research Organization, Melbourne, Australia, 1954. 19 pp.

**Fibrosis of the Liver in West African Children.** Medical Research Council Special Rpt. Series, No. 285. J. H. Walters and J. C. Waterlow. Her Majesty's Stationery Office, London, 1954. 71 pp. 8s 6d.

**National Institutes of Health Annual Lectures—1953.** Public Health Service Publ. No. 388. U.S. Dept. of Health, Education, and Welfare, Washington 25, 1954 (Order from Supt. of Documents, GPO, Washington 25). 102 pp. \$0.45.

**The Vertebrate Organism.** Handbook, pts. II and III. Howard H. Hillemann. The author, P. O. Box 491, Corvallis, Ore., 1954. 190 pp. Unbound ditto, \$2.35.

**The Mammals of the Huachuca Mountains, Southeastern Arizona.** Illinois Biological Monogr., vol. 24, No. 1. Donald F. Hoffmeister and Woodrow W. Goodpaster. Univ. of Illinois Press, Urbana, 1954. 152 pp. Cloth, \$4; paper, \$3.

**The Otariid Seals of the Pacific Coast of America.** Bull.: Zoology, vol. 2, No. 10. Judith E. King. British Museum (Natural History), London, 1954. 28 pp. 8s.

**State Highway Organization Charts.** Highway Research Bd., Special Rpt. 20. Natl. Acad. of Sciences-Natl. Research Council, Washington 25, 1954. 52 pp. \$0.75.

**African Species of the Genus Pantomima Warren (Lepidoptera: Pyralidae: Pyraustinae).** Bull.: Entomology, vol. 3, No. 14. Edward L. Martin. British Museum (Natural History), London, 1955. 18 pp. 7s.

**Table of Salvo Kill Probabilities for Square Targets.** NBS Applied Mathematics Ser. 44. Natl. Bur. of Standards, Washington 25, 1954 (Order from Supt. of Documents, GPO, Washington 25). 33 pp. \$0.30.

**Revisional Notes on the Genus Epitola Westwood (Lepidoptera: Lycaenidae).** Bull.: Entomology, vol. 3, No. 13. Patrick Roche. British Museum (Natural History), London, 1954. 13 pp. 8s.