

are introduced at first just for the convenience of their language; topological spaces provide a supply of illustrative examples. The book is further enriched by historical notes, interpretative remarks, and numerous exercises. Again and again the specific precedes the general, concepts being encountered in action and used before they are formalized; then general results are carried on to precise computational results. There is a corresponding emphasis on content in preference to form.

*Homology* can and will be used as a textbook which, for the student with adequate background, will provide a firm grounding in homology in the algebraic setting. Experienced topologists or algebraists will find here new tools and a road to the frontiers of research, as well as a ready reference for the basic "facts of life" in the subject. The book's most important function will be to facilitate communication between mathematicians, for an algebraist may roam at ease here and experience a new viewpoint on a familiar landscape, while the topologist may venture into a new world, reassured by the haunting familiarity of the basic machinery—homology.

JAMES STASHEFF

*Department of Mathematics,  
University of Notre Dame*

## Plant Pathology

**Biochemistry and Physiology of Plant Immunity.** B. A. Rubin and Ye. V. Artsikhovskaya. Translated from the Russian edition (Moscow, 1960) by Helen Wareing. Pergamon, London; Macmillan, New York, 1963. x + 358 pp. Illus. \$14.

Most plants are resistant to most pathogens, but knowledge of the relatively few cases where given pathogens damage given crops makes up most of the literature on plant pathology. For 60 years much effort has been devoted to trying to detect chemical differences that would explain why some varieties of plants are susceptible but other varieties are resistant to the same pathogen. With perhaps two exceptions, these efforts have been unsuccessful. The futility of this approach may have been first indicated by Bernard about 1910. Acquired immunity in plants was not put on a firm basis till about 1959,

with the work on phytoalexins started by Müller about 1939. As little as 10 years ago acquired immunity was considered of doubtful significance in plant pathology. It now appears that chemicals toxic to the pathogen and formed in host cells in response to preliminary invasion by the pathogen are a major cause of specific resistance, while much of the nonspecific resistance is due to phytoncides, antibiotic chemicals universally present in healthy plants.

Much of the literature leading to this conception is reviewed in this first book on the biochemistry and physiology of plant immunity by Rubin and Artsikhovskaya, Russian leaders in work on phenols in relation to plant disease. The book consists of four chapters—24 pages on the evolution of parasitism, 59 pages on the biochemistry and physiology of heterotrophic organisms, 55 pages on the biochemistry and physiology of the diseased plant, and 140 pages on plant immunity. The first three chapters do not deal closely with immunity, and might almost as well be part of a book on the principles of plant pathology. The last chapter deals with the meat of the subject. Work on fungus diseases is emphasized, and the extensive studies of acquired immunity to viruses is largely omitted. Much is made of the differences in the biochemistry of resistance to obligate and to facultative parasites. Sources of information are thoroughly documented, but the validity and significance is not always adequately appraised. The 1086 references (796 non-Russian) adequately cover work in Russia, the United States, Japan, and England up to 1959. Of the 68 figures, mostly graphs, some (for example, Figs. 51 and 55) are not easily interpreted. The paper, printing, and binding are good, and errors are rare. This book emphasizes the fact that immunity is a problem of biochemical processes rather than chemical composition, and it is a credit to all concerned.

C. E. YARWOOD

*Department of Plant Pathology,  
University of California, Berkeley*

## Note

### A Stone Age Society Today

In the fastness of highland New Guinea survive some of the last truly Stone Age societies of our time. The Kapauku speakers of Kamu Valley in

West New Guinea (formerly Dutch New Guinea) are one of these survivals—at least, they were when Leopold Pospisil first studied them in 1954. *The Kapauku Papuans of West New Guinea* (Holt, Rinehart, and Winston, New York, 1963. 114 pp. \$1.50), by Pospisil, is a condensation of data that he has published in articles and two longer monographs. In this book the author deals with the Kapauku's economy, social and political organizations, law, warfare, and ceremonial life as it was just before the Dutch colonial government first extended their control over the valley.

The field work on which this study is based is a tour de force that will probably not be equalled in a New Guinea society of this sort. To the analysis Pospisil also brings a rare—among anthropologists, that is—sophistication in legal theory and a welcome penchant for documenting statements, wherever possible, with quantified data. For example, if anyone wishes to know what the gross national product and the balance of trade of this branch of the Kapauku are, it is here—in shells, the standard currency of the region. The author has also used precious space to explain many of the concepts he uses in his lucid analysis. All in all this is a salutary addition to the Case Studies in Cultural Anthropology Series, which is being published to provide aids for teaching cultural and social anthropology, for not only does it present a capital example of a stateless society in its unfettered state, but it is also a model of descriptive research.

WILLIAM DAVENPORT

*University Museum,  
University of Pennsylvania*

## New Books

### Biological and Medical Sciences

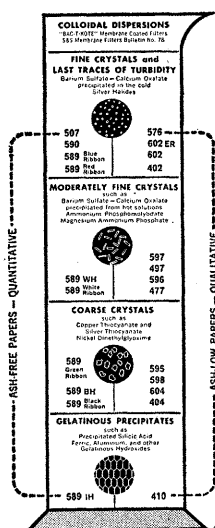
**Acoustic Behaviour of Animals.** R.-G. Busnel, Ed. Elsevier, New York, 1963. 953 pp. Illus. \$45.

**Advances in Acarology.** vol. 1. John A. Naegele, Ed. Cornell Univ. Press, Ithaca, N.Y., 1963. 492 pp. Illus. \$9.75.

**Advances in Biochemistry.** Proceedings of the Summer School in Biochemistry, 1962. P. S. Sarma, Ed. Indian Inst. of Science, Bangalore, 1963. 459 pp. Illus. \$5. More than 40 papers based on the lectures presented by participants at the school, which was sponsored by the Ministry of Scientific Research and Cultural Affairs.

**Advances in Biological Waste Treatment**  
(Continued on page 450)

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### New Books

(Continued from page 404)

**ment.** Proceedings of the third conference sponsored by Manhattan College (New York), April 1960. W. W. Eckenfelder, Jr., and Joseph McCabe, Eds. Pergamon, London; Macmillan, New York, 1963. 448 pp. Illus. \$20.

**Advances in Clinical Chemistry.** vol. 6. Harry Sobotka and C. P. Stewart, Eds. Academic Press, New York, 1963. 411 pp. Illus. \$14. Five papers: "Micromethods for measuring acid-base values of blood," by P. Astrup and O. Siggaard-Andersen; "Magnetism," by C. P. Stewart and S. C. Frazer; "Enzymatic determinations of glucose," by A. H. Free; "Inherited metabolic disorders: errors of phenylalanine and tyrosine metabolism," by L. I. Woolf; "Normal and abnormal human hemoglobins," by T. H. J. Huisman.

**Advances in Food Research.** vol. 12. C. O. Chichester, E. M. Mrak, and G. F. Stewart, Eds. Academic Press, New York, 1963. 445 pp. Illus. \$14. Seven papers: "Chemistry of nonenzymic browning; pt. 1: The reaction between aldoses and amines," by T. M. Reynolds; "Osmophilic yeasts," by Hiroshi Onishi; "The use of carbon dioxide in the transport and storage of fruits and vegetables," by W. Hugh Smith; "Refrigerated transport on shipboard," by K. C. Hales; "Physiology, chemistry, and technology of passion fruit," by J. S. Pruthi; "Utilization of synthetic gums in the food industry," by Martin Glicksman; and "Fish sausage and ham industry in Japan," by Eiichi Tanikawa.

**Advances in Veterinary Science.** vol. 8. C. A. Brandy and E. L. Jungherr, Eds. Academic Press, New York, 1963. 465 pp. Illus. \$16. Eight papers: "The bovine viral diarrhea-mucosal disease complex," by W. R. Pritchard; "The metabolism of iron in farm animals under normal and pathologic conditions," by Erich Kolb; "Gonadal hormones in domestic animals," by Weiert Velle; "The stress concept as we see it today," by R. Veilleux; "Weather, climate, and the bionomics of ruminant nematode larvae," by Norman D. Levine; "Equine infectious anemia or swamp fever," by Susumu Ishii; "African swine fever," by D. E. DeTray; and "Toxoplasmosis in domestic animals," by J. Chr. Siim, U. Biering-Sørensen, and Tage Møller.

**Antibiotic and Chemotherapy.** Mary Barber and Lawrence P. Garrod. Williams and Wilkins, Baltimore, Md., 1963. 374 pp. Illus. \$8.

**The Architecture of the Germplasm.** Verne Grant. Wiley, New York, 1964. 251 pp. Illus. \$9.75.

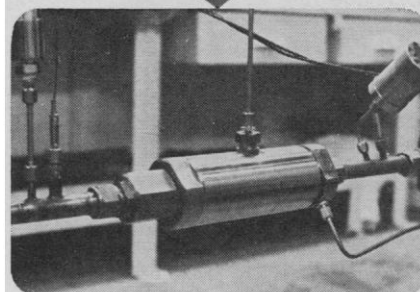
**Atherosclerosis and Its Origin.** Maurice Sandler and Geoffrey H. Bourne, Eds. Academic Press, New York, 1963. 584 pp. Illus. \$22.

**Bacteria and Fungi Pathogenic to Man and Animals.** M. A. Soltys. Williams and Wilkins, Baltimore, 1963. 548 pp. Illus. \$16.

**Bacterial Photosynthesis.** A symposium (Yellow Springs, Ohio), March 1963. Howard Gest, Anthony San Pietro, and Leo

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**Basic Physiology and Anatomy.** Ellen E. Chaffee and Esther M. Greisheimer. Lippincott, Philadelphia, 1964. 668 pp. Illus. \$7.

**Basic Readings in Neuropsychology.** Robert L. Isaacson, Ed. Harper and Row, New York, 1964. 443 pp. Illus. Paper, \$4.95.

**Biochemical Lesions and Lethal Synthesis.** Rudolph A. Peters. Pergamon, London; Macmillan, New York, 1963. 333 pp. Illus. \$10.

**Biochemistry and Physiology of Plant Immunity.** B. A. Rubin and Ye. V. Artiskhovskaya. Translated from the Russian edition (Moscow, 1960) by Helen Wareing. Pergamon, London; Macmillan, New York, 1963. 368 pp. Illus. \$14.

**Biochemistry of the Alligator.** A study of metabolism in slow motion. Roland A. Coulson and Thomas Hernandez. Louisiana State Univ. Press, Baton Rouge, 1964. 158 pp. Illus. \$10.

**Biogenesis of Natural Compounds.** Peter Bernfeld, Ed. Pergamon, London; Macmillan, New York, 1963. 944 pp. Illus. \$28.

**Biological Effects of Deuterium.** J. F. Thomson. Pergamon, London; Macmillan, New York, 1963. 141 pp. Illus. \$7.

**Biologie de l'Amérique Australe.** vol. 2, *Études sur la faune du sol.* Delamare Deboutteville and Eduardo Rapoport, Eds. Editions du Centre National de la Recherche Scientifique, Paris, 1963. 399 pp. Illus. F. 82.

**The Biosynthesis of Vitamins and Related Compounds.** T. W. Goodwin. Academic Press, New York, 1963. 376 pp. Illus. \$11.

**Bio-Telemetry.** The use of telemetry in animal behavior and physiology in relation to ecological problems. Proceedings of the Interdisciplinary Conference (New York), March 1962. Lloyd E. Slater, Ed. Pergamon, London; Macmillan, New York, 1963. 384 pp. Illus. \$18.50. Sessions: The Potential for Telemetry in Biological Research; The Current State of Biological Telemetry; Reports on Telemetry in Animal Tracking, Orientation, and Ecology; Reports on Telemetry in Studies of Animal Social Behavior; Reports on Telemetry in Studies of Animal Physiology; Reports on Telemetry in Studies of Physiology of Man. 36 papers.

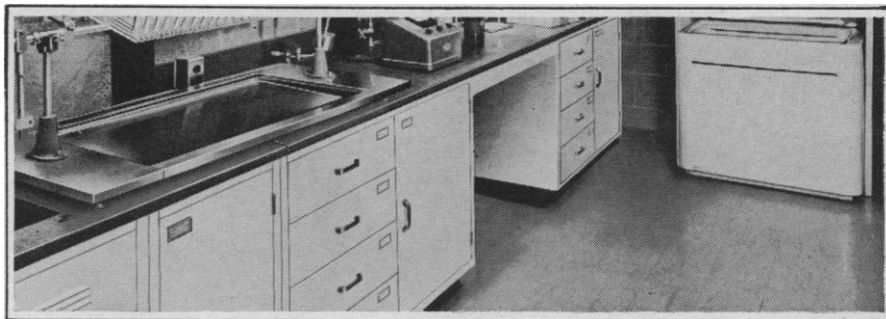
**Blood Pressure Sounds and their Meanings.** pt. 3, *The Heart and the Crystalline Structure of the Body.* John Erskine Malcolm. Thomas, Springfield, Ill., 1963. 75 pp. Illus. \$6.

**Bone Metabolism.** In relation to clinical medicine. Proceedings of a symposium (London), September 1962. H. A. Sissons, Ed. Lippincott, Philadelphia, 1963. 139 pp. Illus. Paper, \$6.

**The Cell.** Carl P. Swanson. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1964. 128 pp. Illus. Paper, \$1.75; cloth, \$3.95.

**The Character of Danger.** Psychiatric symptoms in selected communities. Dorothea C. Leighton, John S. Harding, David B. Macklin, Allister M. Macmillan, and Alexander H. Leighton. Basic Books, New York, 1963. 559 pp. Illus. \$10.

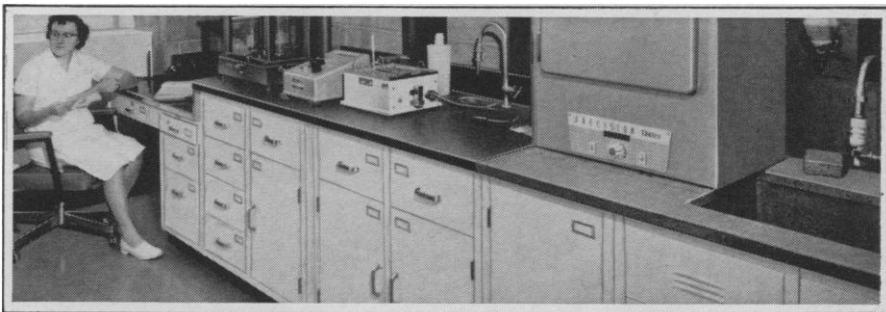
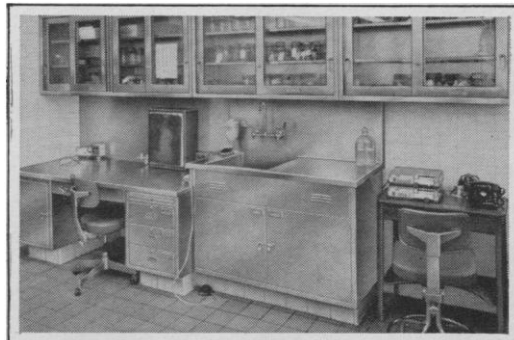
**Color Atlas of Pathology: Central Nervous System.** Charles F. Geschickter



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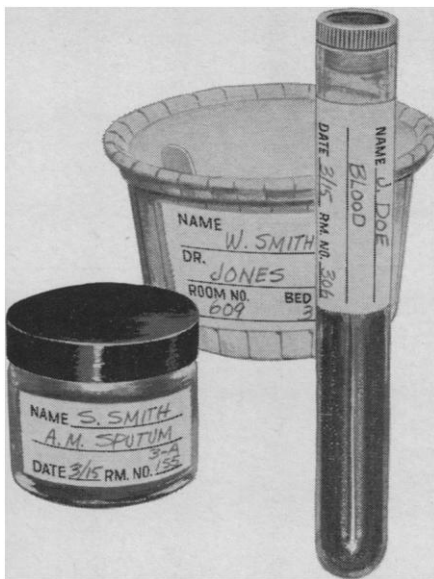


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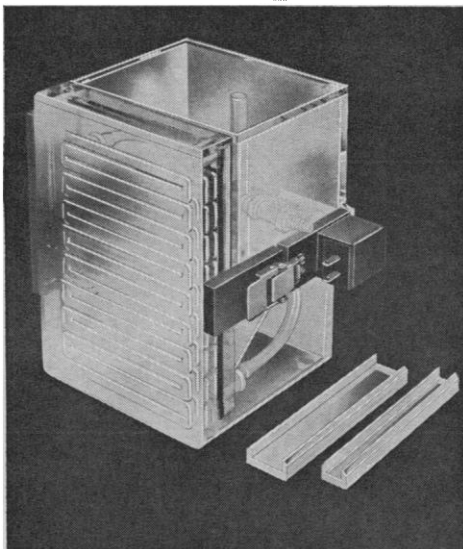
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and Albert Cannon. Lippincott, Philadelphia, 1963. 396 pp. Illus. \$25.

**Comparative Biochemistry.** A comprehensive treatise. vol. 6, *Cells and Organisms*. Marcel Florkin and Howard S. Mason, Eds. Academic Press, New York, 1964. 581 pp. Illus. \$20.

**Comparative Endocrinology.** vol. 2, pt. 1, *Invertebrate Hormones*; pt. 2, *Tissue Hormones*. U. S. von Euler and H. Heller, Eds. Academic Press, New York, 1963. 298 pp. Illus. \$12.

**Counterpoint: Libidinal Object and Subject.** A tribute to Rene A. Spitz on his 75th birthday. Herbert S. Gaskill, Ed. International Univ. Press, New York, 1963. 210 pp. \$4.50.

**Craig and Faust's Clinical Parasitology.** Ernest Carroll Faust and Paul Farr Russell. Lea and Febiger, Philadelphia, ed. 7, 1964. 1099 pp. Illus. \$16.50.

**Desert Animals.** Physiological problems of heat and water. Knut Schmidt-Nielsen. Oxford Univ. Press, New York, 1964. 293 pp. Illus. \$7.20.

**Determinants of Infant Behavior.** vol. 2. Proceedings Second Tavistock Seminar (London), September 1961. B. M. Foss, Ed. Methuen, London; Wiley, New York, 1964. 260 pp. Illus. \$7.75.

**The Development of the Brain and Its Disturbance by Harmful Factors.** B. N. Klovskii. Translated from the Russian edition (Moscow, 1960) by Basil Haigh. Pergamon, London; Macmillan, New York, 1963. 289 pp. Illus. \$9.75.

**The Distribution and Abundance of Tsetse.** J. P. Glasgow. Pergamon, London; Macmillan, New York, 1963. 253 pp. Illus. \$8.50.

**Diuretics.** George deStevens. Academic Press, New York, 1963. 200 pp. Illus. \$7.

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**Elementary Biophysics: Selected Topics.** Herman T. Epstein. Addison-Wesley, Reading, Mass., 1963. 128 pp. Illus. Paper, \$1.75; cloth, \$2.95.

**Elementary Human Anatomy.** Andrew J. Berger. Wiley, New York, 1964. 550 pp. Illus. \$7.75.

**Enzyme Chemistry of Phenolic Compounds.** Proceedings of the Plant Phenolics Group symposium (Liverpool), April 1962. J. B. Pridham, Ed. Pergamon, London; Macmillan, New York, 1963. 152 pp. Illus. \$7.50. Introductory address and 13 papers.

**Enzymes in Blood Plasma.** Benno Hess. Translated from the German edition (Stuttgart, 1962) by Keith S. Henley. Academic Press, New York, 1963. 179 pp. Illus. \$8.

**The Evolution and Eradication of Infectious Diseases.** Aidan Cockburn. Johns Hopkins Press, Baltimore, 1963. 269 pp. Illus. \$7.50.

**Experimental Biochemistry.** John M. Clark, Jr., Ed. Freeman, San Francisco, 1964. 240 pp. Illus. Paper, \$4.75.

**Experimental Biology.** Measurement and analysis. R. H. Kay. Reinhold, New York; Chapman and Hall, London, 1964. 432 pp. Illus. \$12.

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**Experimental Pathogenic Microbiology.** John M. Slack, Vincent F. Gerencser, and Samuel J. Deal. Burgess, Minneapolis, ed. 2, 1964. 177 pp. Illus. Paper, \$4.50.

**Experimental Pharmacogenetics.** Physiopathology of heredity and pharmacologic responses. Hans Meier. Academic Press, New York, 1963. 225 pp. Illus. \$7.50.

**Expression of the Emotions in Man.** Peter H. Knapp, Ed. International Universities Press, New York, 1963. 363 pp. \$7.50. Papers and discussions from the Symposium on Expression of the Emotions in Man, AAAS Annual Meeting, (New York), 29-30 December 1960.

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**Freshwater Ecology.** T. T. Macan. Longmans, Green, London; Wiley, New York, 1963. 348 pp. Illus. \$6.50.

**Functie en Vorm van de Interstitiële Cellen van het Ovarium.** M. de Groodt-Lasseel. Arscia and Presses Academiques Europeennes, Brussels, 1963. 215 pp. Illus. Paper.

**General Physiology of Cell Specialization.** Symposium (Corvallis, Ore.), August 1962. Daniel Mazia and Albert Tyler, Eds. McGraw-Hill, New York, 1963. 448 pp. Illus. \$13.50.

**Generic Names of Orchids.** Their origin and meaning. Richard Evans Schultes and Arthur Stanley Pease. Academic Press, New York, 1963. 347 pp. \$12.

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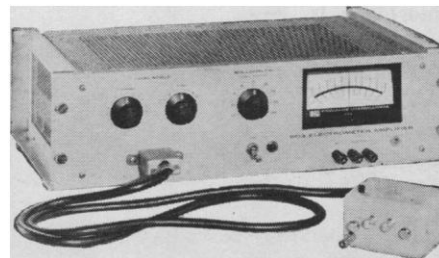
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**Geriatric Psychiatry.** Kurt Wolff. Thomas, Springfield, Ill., 1963. 135 pp. \$5.75.

**Germfree Life and Gnotobiology.** Thomas D. Luckey. Academic Press, New York, 1963. 526 pp. Illus. \$17.50.

**The Handbook of British Mammals.** Edited for the Mammal Society of the British Isles by H. N. Southern. Blackwell, Oxford; Davis, Philadelphia, 1964. 487 pp. Illus. \$6.50.

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**The Harvey Lectures, 1962-1963.** Delivered under the auspices of the Harvey Society of New York. Series 58. Academic Press, New York, 1963. 347 pp. Illus. \$9.50. Lectures by O. H. Lowry, F. J. Dixon, K. Schmidt-Nielsen, C. W. Gottschalk, M. C. Bessis, W. E. LeGros Clark, N. S. Scrimshaw, J. F. Danielli, and G. Moruzzi.

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**Histochemistry and Cytochemistry.** Proceedings of the First International Congress (Paris), 1960. R. Wegmann, Ed. Pergamon, London; Macmillan, New York, 1963. 499 pp. Illus. \$15. This volume contains 14 reports (in French, German, or English) given at the plenary sessions of the congress.

**Hormones and the Kidney.** Proceedings of the 89th meeting of the Society for Endocrinology (Cambridge, England), September 1962. Peter C. Williams, Ed. Academic Press, New York, 1963. 399 pp. Illus.

**Human Vibration Research.** A collection of articles sponsored by the Human Factors Society. S. Lippert, Ed. Pergamon, London; Macmillan, New York, 1963. 119 pp. Illus. \$5.

**Insect Physiology.** Proceedings of a colloquium (Corvallis, Ore.), Victor J. Brookes, Ed. Oregon State Univ. Press, Corvallis, 1963. 124 pp. Illus. \$4. Papers by D. Bodenstein, W. H. Telfer, G. R. Wyatt, S. D. Beck, W. W. Doane, and M. E. Martignon.

**International Review of Connective Tissue Research.** vol. 1. David A. Hall, Ed. Academic Press, New York, 1963. 415 pp. Illus. \$14. Eight papers: "The fibroblast," by A. Whitley Branwood; "The hormonal control of connective tissue," by G. Asboe-Hansen; "Chemical aspects of collagen fibrillogenesis," by D. A. Lowther; "Molecular structure of collagen," by G. N. Ramachandran; "The enzymes of the elastase complex," by W. A. Loeven; "Connective tissue changes in atherosclerosis," by Joseph Baló; "Diabetes and vascular degeneration," by J. W. Czerkowski; and "Calcification of skeletal tissues," by S. M. Weidmann.

**An Introduction to Body Fluid Metabolism.** A. V. Wolf and Norman A. Crowder. Published for the Univ. of Illinois College of Medicine by Williams and Wilkins, Baltimore, Md., 1964. 271 pp. Illus. Paper, \$4.95.

**Introduction to Radiological Health.** Hanson Blatz. McGraw-Hill, New York, 1964. 329 pp. Illus. \$12.75.

**An Introduction to Respiratory Cytology.** Winifred Liu. Thomas, Springfield, Ill., 1963. 127 pp. Illus. \$5.75.

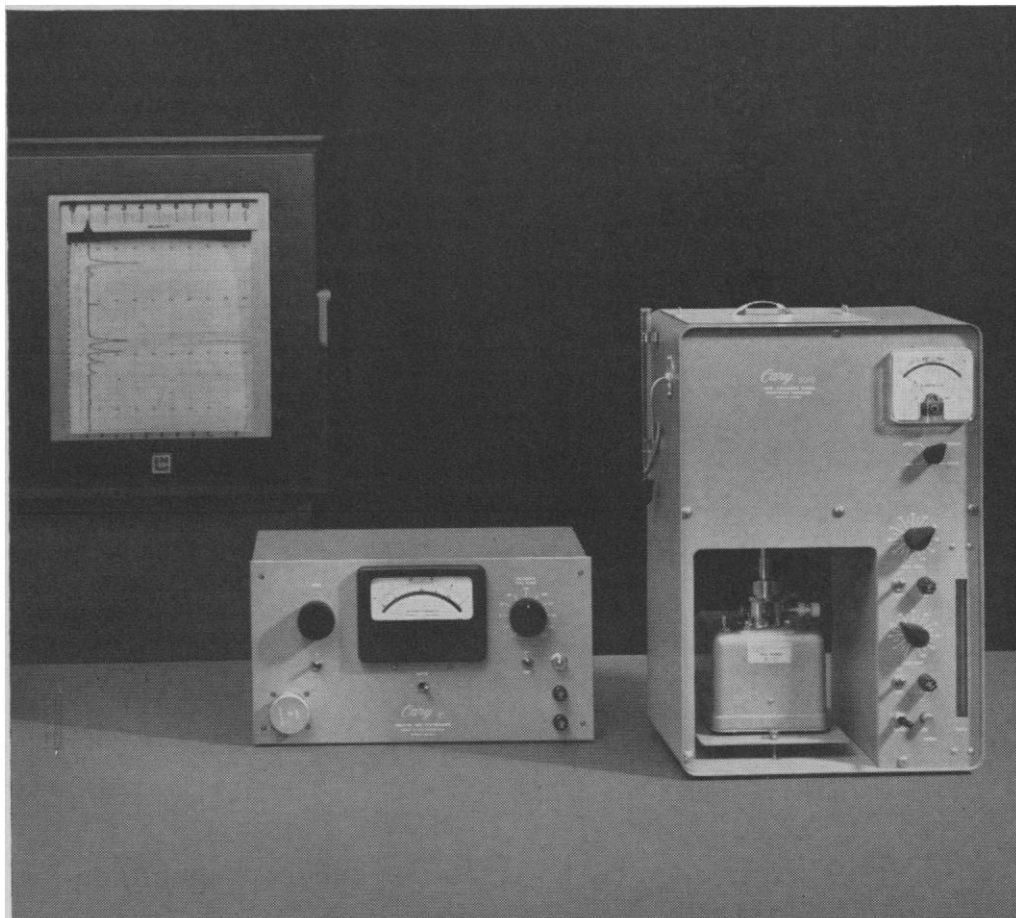
**Irradiation and the Nervous System.** Charles D. Van Cleave. Rowman and Littlefield, New York, 1963. 434 pp. Illus. \$9.75.

**Klinik der Lungenkrankheiten.** H. W. Knipping and H. Rink. Schattauer, Stuttgart, Germany, 1964 (order from Intercontinental Medical Book Corp., New York). 1021 pp. Illus. \$44.50.

**The Liver.** Morphology, biochemistry,

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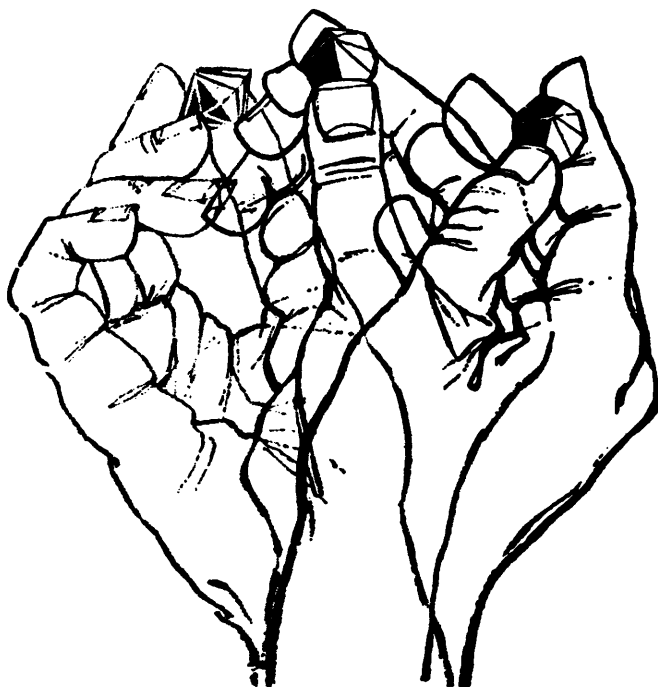
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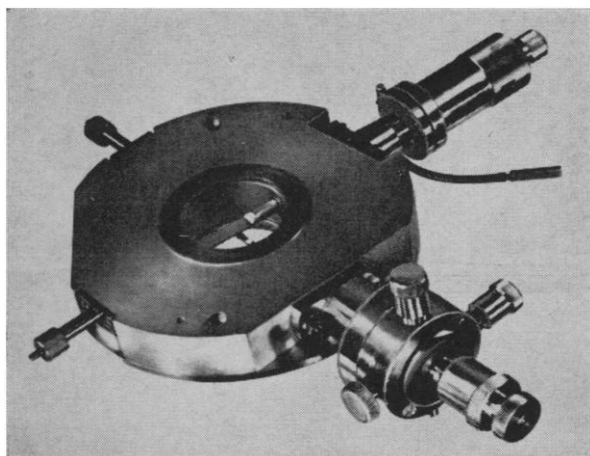
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physiology. vol. 1. C. Rouiller, Ed. Academic Press, New York, 1963. 697 pp. Illus. \$26.

**Livestock and Livestock Products.** Theodore C. Byerly. Prentice-Hall, Englewood Cliffs, N.J., 1964. 432 pp. Illus. \$10.

**The Lower Metazoa.** Comparative biology and phylogeny. Ellsworth C. Dougherty, Zoe Norwood Brown, Earl D. Hanson, and Willard D. Hartman, Eds. Univ. of California Press, Berkeley, 1963. 490 pp. Illus. \$17.50.

**Mechanisms of Hard Tissue Destruction.** A symposium. AAAS Publ., No. 75. Reidar F. Sognnaes, Ed. AAAS, Washington, D.C., 1963. 778 pp. Illus. Members, \$11; others \$13. Twenty-six papers based on a four-session symposium organized by the Section on Dentistry of the AAAS and held during the AAAS annual meeting, December 1962.

**Die Mediastinoskopie.** Biopsische exploration des oberen mediastinums nach E. Carls. Ernst Knoche and Hans Rink. Schattauer, Stuttgart, Germany, 1964 (order from Intercontinental Medical Book Corp., New York). 74 pp. Illus. \$5.50.

**Medical Pharmacology.** Principles and concepts. Andres Goth. Mosby, St. Louis, Mo., ed. 2, 1964. 585 pp. Illus. \$11.75.

**Metabolic Inhibitors.** A comprehensive treatise. vol. 2. R. M. Hochster and J. H. Quastel, Eds. Academic Press, New York, 1963. 771 pp. Illus. \$28.

**Methods in Enzymology.** vol. 6. Sidney P. Colowick and Nathan O. Kaplan, Eds. Academic Press, New York, 1963. 1078 pp. Illus. \$28.

**The Neural Control of Sweating.** G. H. Wang. Univ. of Wisconsin Press, Madison, 1964. 139 pp. Illus. \$5.

**New Thinking in School Biology.** Report on the OECD Seminar (La Tour de Peilz, Switzerland), September 1962. Organization for Economic Co-operation and Development, Paris, 1963 (order from McGraw-Hill, New York). 328 pp. Illus. Paper, \$3.

**Normal and Abnormal Pulmonary Circulation.** vol. 1, *Progress in Research in Emphysema and Chronic Bronchitis.* Robert F. Grover, Ed. Karger, Basel, Switzerland, 1963. 458 pp. Illus. \$17.75. Some 40 papers presented at the fifth annual conference on research in emphysema, which was held at Aspen, Colorado, in 1962.

**Ocular Fine Structure.** Selected electron micrographs. Marie A. Jakus. Little, Brown, Boston, 1964. 214 pp. Plates. \$15.

**The Oculomotor System.** A symposium (New York), April 1961. Morris B. Bender, Ed. Harper and Row, New York, 1964. 572 pp. Illus. \$16.

**Pacific Basin Biogeography.** A symposium of the Tenth Pacific Science Congress (Honolulu), August-September 1961. J. Linsley Gressitt, Ed. Bishop Museum Press, Honolulu, 1963. 571 pp. Illus. Paper, \$12.

**Parasitic Copepoda and Branchiura of Fishes.** Satyu Yamaguti. Interscience (Wiley), New York, 1963. 1114 pp. Illus. \$75.

**The Pathology of Development.** A study of inherited skeletal disorders in animals. Hans Grüneberg. Wiley, New York, 1964. 323 pp. Illus. \$12.

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**Physics of Plant Environment.** W. R. van Wijk, Ed. North-Holland, Amsterdam; Interscience (Wiley), New York, 1963. 398 pp. Illus. \$12.50.

**Plankton and Productivity in the Oceans.** John E. G. Rayment. Pergamon, London; Macmillan, New York, 1963. 668 pp. Illus. \$15.

**Plant Diseases: Epidemics and Control.** J. E. Van der Plank. Academic Press, New York, 1963. 365 pp. Illus. \$10.

**Plant Viruses and Virus Diseases.** F. C. Bawden. Ronald, New York, ed. 4, 1964. 371 pp. Illus. \$8.75.

**The Prevention of Hospitalization.** Treatment without admission for psychiatric patients. Milton Greenblatt, Robert F. Moore, Robert S. Albert, and Maida H. Solomon. Grune and Stratton, New York, 1963. 198 pp. Illus. \$7.50.

**Principles of Angiosperm Taxonomy.** P. H. Davis and V. H. Heywood. Van Nostrand, Princeton, N.J., 1963. 576 pp. Illus. \$15.

**Principles of Numerical Taxonomy.** Robert R. Sokal and Peter H. A. Sneath. Freeman, San Francisco, 1963. 377 pp. Illus. \$8.50.

**The Porphyrins.** A story of inheritance and environment. Geoffrey Dean. Lippincott, Philadelphia, 1964. 129 pp. Illus. \$7.

**Programed Genetics.** vol. 1, *The Basic Concepts*. Chester A. Lawson and Mary Alice Burmester. Heath, Boston, 1963. 336 pp. Illus. Paper, \$4.40.

**Progress in Biophysics and Molecular Biology.** vol. 13. J. A. V. Butler, H. E. Huxley, and R. E. Zirkle, Eds. Pergamon, London; Macmillan, New York, 1963. 338 pp. Illus. \$12.75. Six papers: "Radiobiological mechanisms: comparative distribution and role of ionization, excitation, and energy and charge migration," by L. G. Augenstein; "The radiation chemistry of aqueous solutions of nucleic acids and nucleoproteins," by G. Scholes; "X-ray small angle scattering with substances of biological interest in diluted solutions," by O. Kratky; "Enzymatic synthesis of nucleic acids," by M. Grunberg-Manago; "Ultrastructure and kinetic aspects of solute translocation in the stems of plants," by R. D. Preston; "The mechanochemistry of muscular contraction, a critical revaluation of in vivo studies," by F. D. Carlson.

**Progress in Medicinal Chemistry.** vol. 3. G. P. Ellis and G. B. West, Eds. Butterworth, Washington, D.C., 1963. 417 pp. Illus. \$15.75. Seven papers: "Some chemical aspects of neuromuscular block," by J. B. Stenlake; "The chemotherapy of trypanosomiasis," by L. P. Walls; "Antitussive drugs," by C. I. Chappel and C. Von Seeman; "The chemistry and pharmacology of the Rauwolfia alkaloids," by R. A. Lucas; "Statistics as applied to pharmacological and toxicological screening," by G. A. Stewart and P. A. Young; "Anticonvulsant drugs," by A. Spinks and W. S. Waring; "Local anaesthetics," by S. Wiedling and C. Tegner.

**Progress in Nucleic Acid Research.** vol. 2. J. N. Davidson and Waldo E. Cohn, Eds. Academic Press, New York, 1963. 359 pp. Illus. \$11. Nine papers: "Nucleic acids and information transfer," by L. F.

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**Progress in the Chemistry of Fats and Other Lipids.** vol. 7, pt. 1, *The Higher Saturated Branched Chain Fatty Acids*. Sixten Abrahamsson, Stina Stallberg-Stenhagen, and Einar Stenhagen. Pergamon, London; Macmillan, New York, 1963. 172 pp. Illus. Paper, \$5.75.

**Protein Nutrition and Metabolism.** Proceedings of a conference (Urbana, Ill.), October 1962. Joseph Kastelic, Harold H. Draper, and Harry P. Broquist, Eds. Univ. of Illinois Press, Urbana, 1963. 160 pp. Illus.

**The Proteins.** Composition, structure, and function. vol. 1. Hans Neurath, Ed. Academic Press, New York, ed. 2, 1963. 679 pp. Illus. \$22.

**The Psittacosis Group as Bacteria.** James W. Moulder. Wiley, New York, 1964. 103 pp. Illus. \$4. The Ciba Lectures in Microbial Biochemistry.

**Psychopharmacological Methods.** Proceedings of a symposium held under the auspices of the Society for the Study of Higher Nervous Activity, Czechoslovak Medical Society (Prague), October–November 1961. Zdeněk Votava, Milan Horváth, and Oldřich Vinař, Eds. Pergamon, London; Macmillan, New York, 1963. 360 pp. Illus. \$14.

**Psychophysiologie, Neuropharmacologie et Biochimie de la Crise Audiotogène.** International colloquium (Gif-Sur-Yvette, France), November 1961. Editions du Centre National de la Recherche Scientifique, Paris, 1963. 531 pp. Illus. F. 58.

**Quantitative Plant Ecology.** P. Greig-Smith. Butterworth, Washington, D.C., ed. 2, 1964. 268 pp. Illus. \$8.95.

**The Rat.** A study in behaviour. S. A. Barnett. Aldine, Chicago, Ill., 1963. 304 pp. Illus. \$7.95.

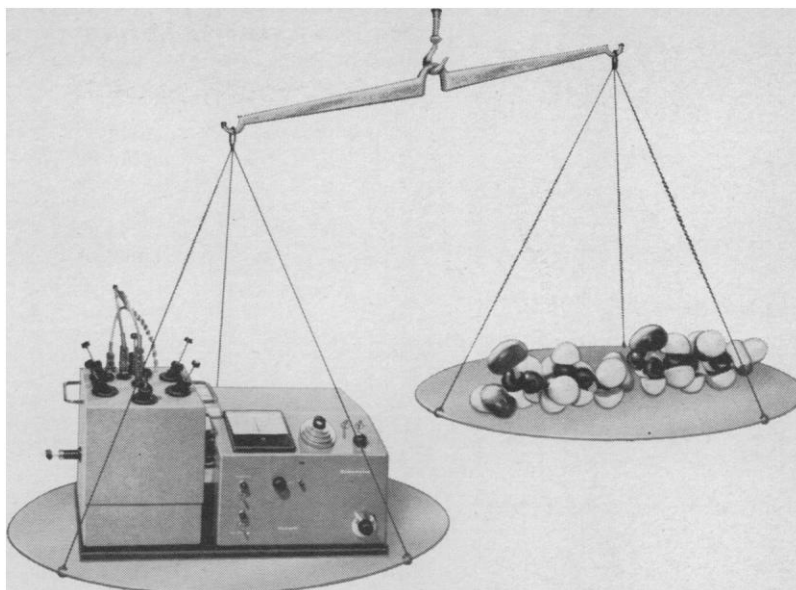
**Readings in Pharmacology.** Selected and edited by B. Holmstedt and G. Liljestrand. Pergamon, London; Macmillan, New York, 1963. 405 pp. Illus. \$7.50.

**Research with Primates.** Proceedings of a conference (Beaverton, Ore.), May 1962. Donald E. Pickering, Ed. Oregon Regional Primate Research Center, Beaverton, 1963. 108 pp. Illus. \$2.50.

**The Senses of Animals.** L. Harrison Matthews and Maxwell Knight. Philosophical Library, New York, 1963. 240 pp. Illus. \$7.50.

**Some Biochemical and Immunological Aspects of Host-Parasite Relationships.** Harold E. Whipple, Ed. New York Acad. of Sciences, New York, 1963. 510 pp. Illus. Paper. \$7. Thirty-two papers "concerned primarily with biochemical and immunological interactions between host and parasite. . . ." The papers were presented at a conference sponsored by the Academy and held in April 1963.

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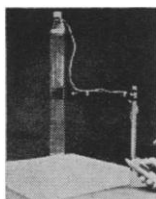
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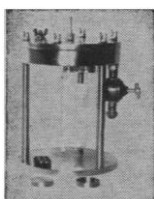
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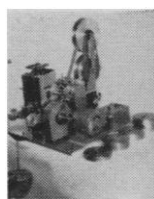
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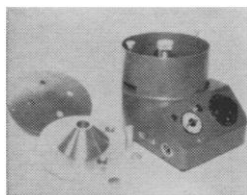


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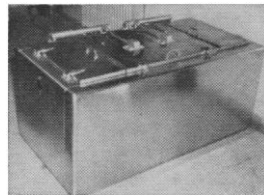
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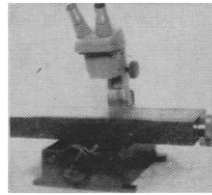
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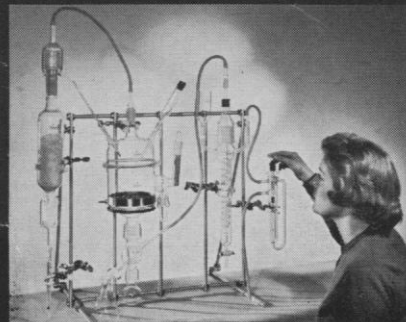


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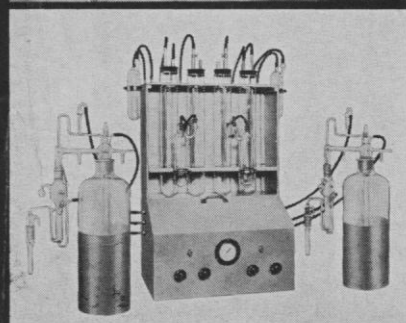
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**Speciation in the Sea.** A symposium organized jointly by the Systematics Association and the Challenger Society, and held at Plymouth Laboratory of the Marine Biological Association, September 1961. J. P. Harding and Norman Tebbles, Eds. Systematics Assoc., London, 1963. 199 pp. Illus. Paper, \$2.

**Specifications for Reagents Mentioned in the International Pharmacopoeia.** World Health Organization, Geneva, Switzerland, 1963 (order from Columbia Univ. Press, New York). 267 pp. \$6.

**The States of Human Consciousness.** C. Daly King. University Books, New Hyde Park, N.Y., 1963. 192 pp. \$7.50.

**The Swedish Cancer Society Year Book, 1960-1962.** Hilding Bergstrand, Ed. Almqvist and Wiksell, Stockholm, 1963. 509 pp. Illus.

**Symbolism of Masculinity and Femininity.** Gerard A. DeWit. Springer, New York, 1963. 107 pp. Paper, \$3.

**Systems of Psychotherapy.** A comparative study. Donald H. Ford and Hugh B. Urban. Wiley, New York, 1963. 724 pp. \$10.95.

**Techniques in Photomicrography.** E. B. Brain and A. R. Ten Cate. Van Nostrand, Princeton, N.J., 1963. 157 pp. Illus. \$6.75.

**Techniques in Endocrine Research.** Proceedings of a NATO Advanced Study Institute (Stratford-Upon-Avon, England), held under the auspices of the University of Birmingham, September 1962. Peter Eckstein and Francis Knowles, Eds. Academic Press, New York, 1963. 335 pp. Illus. \$11.

**Temporal Organization in Cells.** A dynamic theory of cellular control processes. B. C. Goodwin. Academic Press, New York, 1963. 173 pp. Illus. \$6.50.

**A Textbook in Analytic Group Psychotherapy.** S. R. Slavson. International Universities Press, New York, 1964. 573 pp. Illus. \$10.

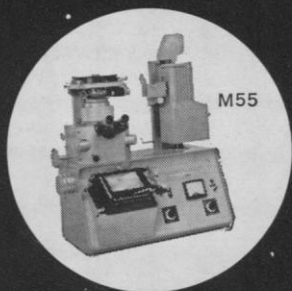
**A Textbook of Human Embryology.** R. G. Harrison. Davis, Philadelphia, ed. 2, 1963. 260 pp. Illus. \$9.50.

**Textbook of Mental Deficiency (Subnormality).** R. F. Tredgold and K. Soddy. Williams and Wilkins, Baltimore, ed. 10, 1963. 542 pp. Illus. \$12.50.

**Traité de Biochimie Générale.** P. Boulanger and J. Polonovski, Eds. vol. 2, *Les Agents des Synthèses et des Dégradations Biochimiques*; pt. 2, *Les Enzymes*. M. Javillier, M. Polonovski, M. Florkin, P. Boulanger, M. Lemoigne, J. Roche, and R. Wurmser. Masson, Paris, 1964. 761 pp. Illus. Paper, \$28.55; cloth, \$31.65.

**The Transfer of Calcium and Strontium Across Biological Membranes.** Proceedings of a symposium (Ithaca, N.Y.), May 1962. R. H. Wasserman, Ed. Academic Press, New York, 1963. 463 pp. Illus. \$11.50.

**Ultrastructure of Protein Fibers.** Proceedings of the 19th annual meeting of the Electron Microscope Society of America, August 1961. Rubin Borasky, Ed. Academic Press, New York, 1963. 202 pp. Illus. \$9. Six papers.



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**Vegetative Anatomy of Plants.** H. G. Burström and Camilla Odhnoff. Svenska Bokforlaget, Stockholm, 1963. 157 pp. Illus.

**Vegetation and Flora of the Sonoran Desert.** vols. 1 and 2. vol. 1, pt. 1, *Vegetation of the Sonoran Desert* (reprint of Carnegie Institution of Washington Publ. No. 591, 1951), Forrest Shreve; pt. 2, *Flora of the Sonoran Desert*, Ira L. Wiggins (850 pp. Illus. Plates.); vol. 2, Forrest Shreve and Ira L. Wiggins (906 pp.). Stanford Univ. Press, Stanford, Calif., 1964. Set, \$22.50.

**Virus Diseases of Apples and Pears.** A. F. Posnette, Ed. Commonwealth Agricultural Bureaux, Farnham Royal, Bucks, England, 1963. 153 pp. Illus. \$5.25.

**Viruses, Nucleic Acids, and Cancer.** Papers presented at the 17th annual symposium on fundamental cancer research, 1963. Published for the University of Texas M. D. Anderson Hospital and Tumor Inst. by Williams and Wilkins, Baltimore, Md., 1963. 675 pp. Illus. \$16.

**The Year Book of Veterinary Medicine, 1963.** vol. 1. William F. Riley, Jr., Kenneth W. Smith, and Robert J. Flynn, Eds. Year Book, Chicago, 1963. 456 pp. Illus. \$10.

**Viruskrankheiten des Menschen.** Unter besonderer Berücksichtigung der experimentellen Forschungsergebnisse. vol. 1, pt. 9. Eugen Haagen. Steinkopff, Darmstadt, Germany, 1963. 95 pp. Illus. Paper, DM. 24.

**Vitamins and Coenzymes.** Arthur F. Wagner and Karl Folkers. Interscience (Wiley), New York, 1964. 548 pp. Illus. \$17.50.

### Economics and the Social Sciences

**Alcohol Education for Classroom and Community.** A source book for educators. Raymond G. McCarthy, Ed. McGraw-Hill, New York, 1964. 320 pp. Illus. \$7.50.

**The Annual Survey of Psychoanalysis.** A comprehensive survey of current psychoanalytic theory and practice. vol. 7. John Frosch and Nathaniel Ross, Eds. International Universities Press, New York, 1964. 531 pp. \$12.

**Behaviorism and Phenomenology.** Contrasting bases for modern psychology. T. W. Mann, Ed. Published for William Marsh Rice Univ. by Univ. of Chicago Press, Chicago, 1964. 202 pp. \$5.

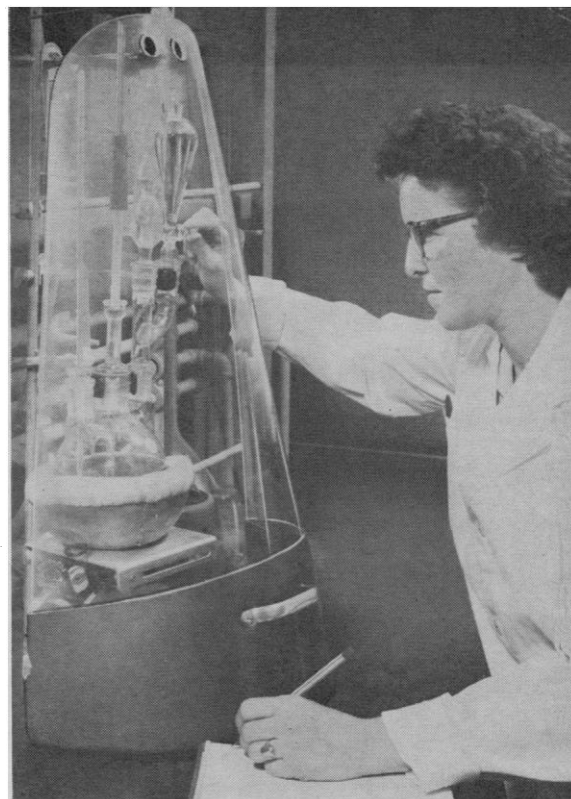
**Biennial Review of Anthropology, 1963.** Bernard J. Siegel, Ed. Stanford Univ. Press, Stanford, Calif., 1963. 325 pp. \$7.50.

**Career Training in Child Psychiatry.** Report of a conference (Washington, D.C.), January 1963. Othilda Krug *et al.*, Eds. American Psychiatric Assoc., Washington, D.C., 1964. 270 pp. \$3.

**Classification and Human Evolution.** Sherwood L. Washburn, Ed. Aldine, Chicago, 1964. 381 pp. Illus. \$7.50.

**The Conduct of Inquiry.** Methodology for behavioral science. Abraham Kaplan. Chandler, San Francisco, 1964. 448 pp. \$8.

**Critical Essays on Psychoanalysis.** Stanley Rachman, Ed. Pergamon, London; Macmillan, New York, 1963. 298 pp. \$7.50.

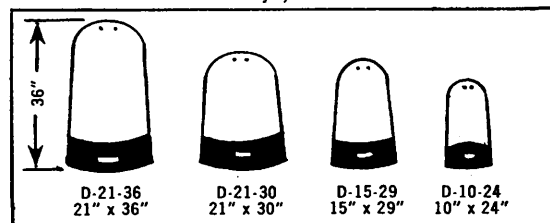


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