

This book, it is hoped, gives an accurate account of the basic discoveries in parasitology at a level which is comprehensible to the non-professional parasitologist."

Chapter 1 traces parasitology from ancient times until the middle of the 19th century. This precedes chapters about certain particular parasites chosen "because their histories illustrate distinct steps in the history of parasitology as a whole." These chapters, are "The Cestodes," "Fasciola Hepatica," "The Schistosomata," "Trichinella Spiralis," "Hookworms," "Wuchereria Bancrofti," "Dracunculus Medinensis," "The Parasitic Protozoa," "The Trypanosomes," "Entamoeba Histolytica," "Babesia Bigemina" [his spelling], "The Plasmodia," and the concluding chapter, "Parasitology Established." There is a bibliography and an index of personal names.

The book, except for the story of *Babesia bigemina*, is an outline history of medical parasitology. In such a brief survey, restriction and selection of material are unavoidable, and the author explains this. The book is interesting, well written, and adequately produced. It probably serves the purpose for which it is intended. However, it is not without errors, some of which may lead to misunderstanding. A professional parasitologist might object to lack of depth in treatment of some of the topics selected.

JOSEPH F. OLIPHANT

Department of Biological Sciences,  
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## Handbook of Physiology

The **Handbook of Physiology**, section 2, vol. 3, *Circulation* (published for the American Physiological Society by Williams and Wilkins, Baltimore, 1965. 985 pp., \$32), edited by W. F. Hamilton and Philip Dow, completes the series on circulation. Volume 1 (1962) dealt chiefly with the blood, with hemodynamics, and with the heart; volume 2 dealt with the blood vessels.

Admirably, the present volume starts out to put these pieces together, in a chapter entitled "Integrated aspects of cardiovascular regulation" (Folkow, Heymans, and Neil). Circulatory control is also analyzed, using analog computer techniques (Homer Warner) and is further discussed in a chapter entitled "Postural changes in the cir-

culation" (O. H. Gauer and H. L. Thron), in one on adaptive changes in the heart to heavy work loads (F. Grande and H. L. Taylor), and in one on effects of conditioned reflexes on the circulation (S. Figar).

Control of the circulation by autonomic drugs is covered by R. P. Ahlquist; the circulatory effects of "psychopharmacological drugs," both ancient (cocaine) and modern (tranquilizers), are described by J. H. Burn, and those of anesthetics by E. M. Greisheimer. Two chapters on the circulatory effects of heat and cold, and of artificial hypothermia (Rudolf Thauer) precede an account of the intriguing sequence of events that occur during the hibernation of hamsters and squirrels (Charles Lyman).

Three chapters, on the interface between circulation and respiration, are on effects of high pressures from diving or from other causes, in whales and men (Karl Schaefer); on effects of respiratory acts, including the Valsalva maneuver (E. P. Sharpey-Schafer); and on hyperventilation and hypoventilation (Dickinson Richards).

Comparative physiology of the circulation in invertebrates and vertebrates is discussed by A. W. Martin and K. Johansen.

The embryology of the heart is treated by J. D. Boyd, and another paper on structure, "Ultrastructure of the vascular membrane" (of the capillaries), is by G. Majno, who traces changes in interpretation of electron micrographs in recent years. The history and present status of pump-oxygenation systems are described by P. M. Galletti and G. A. Brecher.

The treatment of pathophysiology comprises the remainder of the volume, including a discussion of sludged blood (M. H. Knisely), a clear account of the many events occurring in blood clotting (M. Mason Guest), and an outline of the effects of anaphylactic shock on blood vessels (Hiram Essex) and of the causes of clubbing of the fingers (Jean Ginsberg).

Men who have toiled long in the vineyards cover topics of perennial controversy, including shock (Jacob Fine), cardiac failure (James O. Davis), and hypertension (Irvine Page and J. W. McCubbin).

So diverse a group of topics in one volume was not the original plan of the editors, but differing times of arrival of the many manuscripts necessitated changes. The wonder is that

the three volumes were published in a period of only 3 years, and, above all, that the quality of most of the chapters is so outstandingly high. It should be added that, throughout the volume, the illustrations are also of high quality. Of enormous value is the comprehensive author and subject index prepared by Williamina Himwich, which makes instantly available the material in all three volumes, for these volumes represent the greatest compendium of knowledge of the physiology of the circulatory system existing today. As such, this section of the handbook represents a magnificent accomplishment by the editors, the late, beloved William F. Hamilton, and his colleague Philip Dow, and by the contributors themselves.

JOHN F. PERKINS, JR.

Department of Physiology,  
University of Chicago

## New Books

### General

**Acquisitions Récentes en Biologie.** Aubier-Montaigne, Paris, 1965. 305 pp. Illus. Paper. Contributors are Jean André, Ernest Bösigier, Gérard Bouhot, François Bourlière, Albert Claude, Alfred Fessard, Manfred Gabe, Pierre P. Grassé, Roger Martoja, Alexis Moyse, Jean Nitsch, Jean Rostand, André Tétry, Jean Valérien, and Étienne Wolff.

**Alcoholism.** Neil Kessel and Henry Walton. Penguin Books, Baltimore, 1965. 192 pp. Paper, 95¢.

**American Ultraminiature Component Parts Data, 1965-66.** G. W. A. Dummer and J. Mackenzie Robertson. Pergamon, New York, 1965. 498 pp. Illus. \$21.50.

**The Amateur Archaeologist's Handbook.** Maurice Robbins and Mary B. Irving. Crowell, New York, 1966. 287 pp. Illus. \$6.95.

**An Annotated Bibliography of Tree Growth and Growth Rings, 1950-1962.** Sharlene R. Agerter and Waldo S. Glock. Univ. of Arizona Press, Tucson, 1965. 188 pp. \$15. The sections are Tree growth; Growth factors; Taxonomy and distribution; Tree rings; Bibliographies; Semipopular; and Tree rings and archeology.

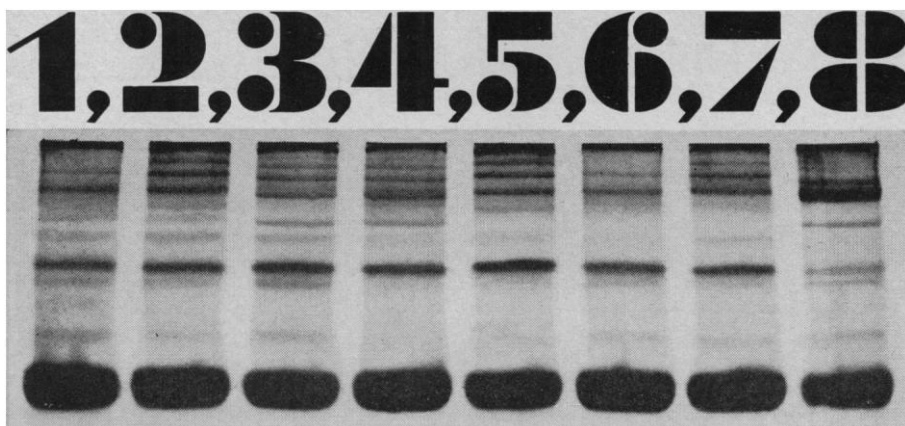
**Astronautics Year.** An international astronomical and military space/missile review of 1964. Compiled by David Howard. Pergamon, New York, 1965. 229 pp. Illus. \$6.

**The Atmosphere in Action.** I. J. W. Potthecary. Macmillan, London; St. Martin's Press, New York, 1965. 111 pp. Illus. \$3.95.

**Audubon in the West.** Compiled and edited by John Francis McDermott. Univ. of Oklahoma Press, Norman, 1966. 143 pp. Illus. \$4.95.

**The Australian Sky.** W. J. Newell. Jaca-

(Continued on page 1292)



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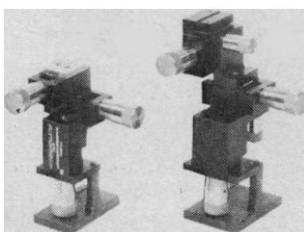
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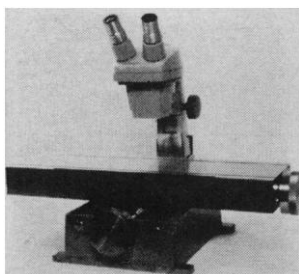
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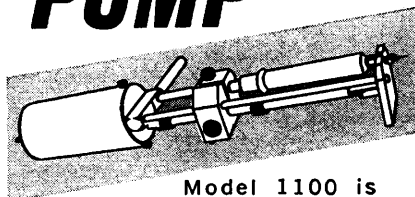
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### NEW BOOKS

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randa Press, Brisbane, Australia, 1965. 125 pp. Illus. Paper. A volume in the series Jacaranda Pocket Guides.

**Australian Weather.** A. J. Shields. Jacaranda Press, Brisbane, Australia, 1965. 125 pp. Illus. Paper. A volume in the series Jacaranda Pocket Guides.

**The Background to Newton's Principia.** A study of Newton's dynamical researches in the years 1664–84. John Herivel. Oxford Univ. Press, New York, 1965. 353 pp. Illus. \$11.20.

**Basic Concepts of Measurement.** Brian Ellis. Cambridge Univ. Press, New York, 1966. 232 pp. Illus. \$8.50.

**The Basic Dictionary of Science.** E. C. Graham, Ed. Macmillan, New York, 1966. 584 pp. \$5.95.

**Bioelectronics Abstracts.** vol. 2, 1962–1963. S. B. Sells and Helen F. Sells, Eds. Texas Christian Univ. Press, Ft. Worth, 1965. 542 pp. Paper.

**The Biological Role of the Nucleic Acids.** David Cohen. Elsevier, New York, 1966. 112 pp. Illus. Paper, \$3.95.

**Birth Control in the Modern World.** The role of the individual in population control. Elizabeth Draper. Penguin Books, Baltimore, 1965. 333 pp. Paper, \$1.25.

**Book of ASTM Standards: With Related Material.** Pt. 22, *Sorptive Mineral Materials; Soap; Engine Antifreezes; Wax Polishes; Halogenated Organic Solvents; Activated Carbon.* American Soc. for Testing and Materials, Philadelphia, Pa., 1966. 472 pp. Illus. \$8; members, \$5.60.

**Breakthrough: The Saga of Jonas Salk.** Richard Carter. Trident Press, New York, 1966. 445 pp. \$5.95.

**Chemistry and Biology Laboratories: Design, Construction, Equipment.** Werner Schramm. Translated from the second German edition by Mrs. M. Jansen. J. M. Leytham, Translation Ed. Pergamon, New York, 1965. 265 pp. Illus. \$17.50.

**Chronologies in Old World Archaeology.** Robert W. Ehrich, Ed. Univ. of Chicago Press, Chicago, 1965. 569 pp. Illus. Paper. \$5; cloth, \$7.50. Fifteen papers contributed by William F. Albright, Donald F. Brown, Kwang-Chih Chang, George F. Dales, Robert H. Dyson, Jr., Robert W. Ehrich, Marija Gimbutas, Donald P. Hansen, Helene J. Kantor, Machteld J. Mellink, Edith Porada, Homer L. Thomas, Patty Jo Watson, and Saul S. Weinberg.

**Clays and Clay Minerals: Index to the Proceedings of the First to the Tenth National Conferences on Clays and Clay Minerals.** Prepared by Thomas E. Bridge and Syble Bridge. Pergamon, New York, 1965. viii + 87 pp. 40s.

**The College of Agriculture: Science in the Public Service.** Charles E. Kellogg and David C. Knapp. McGraw-Hill, New York, 1966. 253 pp. \$6.95.

**Construction and Professional Management: An Introduction.** Harry Rubey and Walker W. Milner. Macmillan, New York, 1966. 320 pp. Illus. \$8.95. Macmillan Series in Civil Engineering, edited by Gene Nordby.

**The Correspondence of Henry Oldenburg.** vol. 2, 1663–1665. Edited and trans-

lated by A. Rupert Hall and Marie Boas Hall. Univ. of Wisconsin Press, Madison, 1966. 704 pp. Illus. \$12.50.

**Crop Ecologic Survey in West Africa (Liberia, Ivory Coast, Ghana, Togo, Dahomey, Nigeria).** vol. 2, Atlas. Prepared by J. Papadakis. Food and Agriculture Organization of the United Nations, Rome, 1965. Unpaged. Illus. Paper, \$5.

**Crustaceans.** Waldo L. Schmitt. Univ. of Michigan Press, Ann Arbor, 1965. 204 pp. Illus. Paper, \$1.95; cloth, \$5. Ann Arbor Science Library Series.

**The Deepest Days.** Robert Sténuit. Translated by Morris Kemp. Coward-McCann, New York, 1966. 222 pp. Illus. \$5.95. The story of the "Man in Sea" project, including an account of the two days spent by the author and Jon Lindbergh in an undersea igloo.

**Dictionary of Electronics.** Harley Carter. Newnes, London, 1960; Hart, New York, 1966. 416 pp. Illus. Paper, \$2.65.

**Digest of Literature on Dielectrics.** vol. 28, 1964. A. M. Sletten, Ed. Natl. Acad. of Sciences-Natl. Research Council, Washington, D.C., 1965. 369 pp. \$20.

**Earthquake Investigations in the Western United States, 1931-1964.** Dean S. Carder, Ed. U.S. Department of Commerce, Washington, D.C., 1965 (order from Superintendent of Documents, Washington, D.C.). 272 pp. Illus. \$2.75.

**Encyclopedia of Pigeon Breeds.** Wendell M. Levi. T.F.H. Publications, Jersey City, N.J., 1965. 790 pp. Illus. \$30.

**Eskimo Administration, III: Labrador.** Diamond Jenness. Arctic Institute of North America, Montreal, 1965. 94 pp. Paper, \$3. Technical Paper, No. 16.

**Essays on Econometrics and Planning.** C. R. Rao, Ed. Pergamon, New York; Statistical Publishing Soc., Calcutta, 1966. 358 pp. Illus. \$15. Twenty-two papers presented to P. C. Mahalanobis on the occasion of his 70th birthday, 1963.

**European Miniature Electronic Components and Assemblies Data, 1965-66.** Including six-language glossaries of electronic component and microelectronics terms. Pt. 2, *France, Netherlands, Scandinavia, and Switzerland.* G. W. A. Dummer and J. Mackenzie Robertson, Eds. Pergamon, New York, 1965. 1135 pp. Illus. \$35.

**Experience and Conceptual Activity.** A philosophical essay based upon the writings of A. N. Whitehead. J. M. Burgers. M.I.T. Press, Cambridge, Mass., 1965. 287 pp. \$7.50.

**Flowers of the Mediterranean.** Oleg Polunin and Anthony Huxley. Houghton Mifflin, Boston, 1966. 269 pp. Illus. \$9.75.

**From Pythagoras to Einstein.** K. O. Friedrichs. Random House, New York, 1966. 96 pp. Illus. Paper, \$1.95. New Mathematical Library Series.

**A Geography of China.** T. R. Tregear. Aldine, Chicago, 1965. 360 pp. Illus. \$7.95.

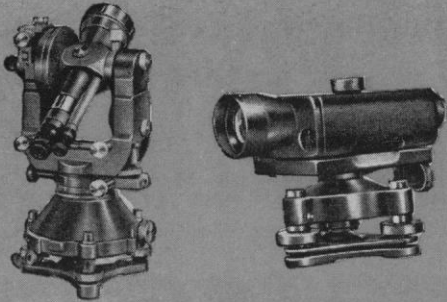
**Geography of Coastal Deserts.** Peveril Meigs. UNESCO, Paris, 1966. 158 pp. Illus. Paper, \$6.50.

**The Heart: Its Function in Health and Disease.** Arthur Selzer. Univ. of California Press, Berkeley, 1966. 313 pp. Illus. \$5.95. Perspectives in Medicine, edited by Leo van der Reis.

**Heredity and the Nature of Man.** Theo-

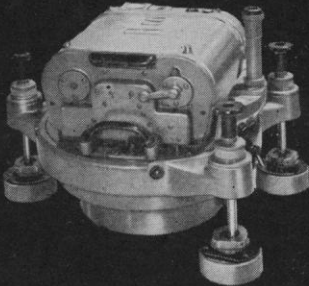
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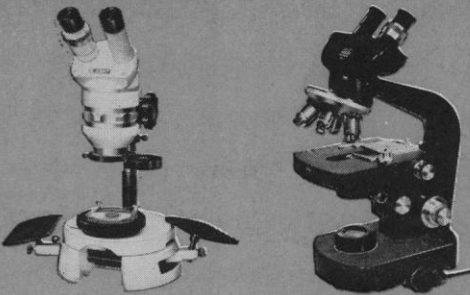
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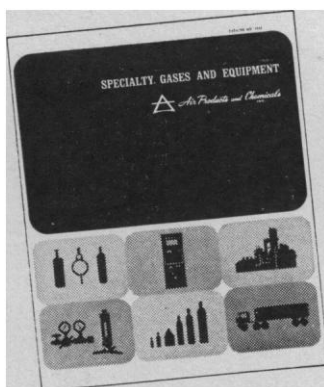
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dosius Dobzhansky. New American Library, New York, 1966. 175 pp. Illus. Paper, 60¢. Reprint; a Signet Science Library Book.

**A History of Biology.** Maurice Caullery. Translated from the French edition (Paris, 1941) by James Walling, Walker, New York, 1966. 158 pp. Illus. \$3.95.

**A History of Southern Rhodesia: Early Days to 1934.** L. H. Gann. Humanities Press, New York, 1965. 366 pp. Map. \$10.

**Human Geography.** Aimé Vincent Perpillou. Translated from the French by E. D. Laborde. Wiley, New York, 1966. 542 pp. Illus. Geographies for Advanced Study, edited by S. H. Beaver.

**Human Nature in Geography.** John Kirtland Wright. Harvard Univ. Press, Cambridge, Mass., 1966. 383 pp. Illus. \$10. Fourteen papers, 1925-1965.

**Huntia.** A yearbook of botanical and horticultural bibliography. vol. 2. George H. M. Lawrence, Ed. Hunt Botanical Library, Pittsburgh, Pa., 1965. 310 pp. Illus. Paper, \$7.50; cloth, \$8.50. Eleven papers.

**Interrelations: The Biological and Physical Sciences.** Robert T. Blackburn. Scott, Foresman, Chicago, 1966. 256 pp. Illus. Paper, \$3.

**Introduction to Data Processing.** Robert R. Arnold, Harold C. Hill, and Aylmer V. Nichols. Wiley, New York, 1966. 336 pp. Illus. \$6.95.

**Inventory Systems.** Eliezer Naddor. Wiley, New York, 1966. 355 pp. Illus. \$11.50.

**Life Around Us.** Fritz-Martin Engel. Translated from the German edition (1961) by J. R. Foster. Crowell, New York, 1966. 206 pp. Illus. \$6.95.

**The Management of the Diabetic Patient.** A practical guide. Elaine P. Ralli. Putnam, New York, 1965. 221 pp. Illus. \$7.

**Mathematical Explorations in Behavioral Science.** Fred Massarik and Philburn Ratoosh, Eds. Dorsey Press, Homewood, Ill., 1965. 395 pp. Illus. \$7.95. The Irwin-Dorsey Series in Behavioral Science; 22 papers: Mathematics and Behavioral Science: Some Prefatory Thoughts (3 papers); Explorations in Philosophy and Method (4 papers); Individual Behavior: The Search for Pattern (3 papers); Group Behavior: Interaction and Conflict (3 papers); Group Behavior: Process and Performance (4 papers); The Behavior of Large Social Aggregates: Parks, Cities, and Society (5 papers).

**McGraw-Hill Encyclopedia of Science and Technology.** vols. 1-15. William H. Crouse, David I. Eggenberger, and others, Eds. McGraw-Hill, New York, ed. 2, 1966. Illus. \$295.

**The Measure of the Universe: A History of Modern Cosmology.** J. D. North. Oxford Univ. Press, New York, 1965. 464 pp. Illus. \$11.20.

**Missile Technology Abbreviations and Acronyms.** Arthur T. Cartier. Hayden, New York, 1965. 134 pp. Paper, \$3.95.

**Monograph of Cyrtandra (Gesneriaceae) on Oahu, Hawaiian Islands.** Harold St. John. Bishop Museum Press, Honolulu, 1966. 469 pp. Illus. Paper, \$12.

**Must the Bomb Spread?** Leonard Beaton. Penguin Books, Baltimore, 1966. 147 pp. Paper, 95¢.

**The Nature of Psychology.** A selection

of papers, essays, and other writings by the late Kenneth J. W. Craik. Stephen L. Sherwood, Ed. Cambridge Univ. Press, New York, 1966. 204 pp. Illus. \$6.

**On-Line Computation and Simulation: The OPS-3 System.** Martin Greenberger, Malcolm M. Jones, James H. Morris, Jr., and David N. Ness. M.I.T. Press, Cambridge, Mass., 1965. 140 pp. Illus. Paper, \$4.50.

**Louis Pasteur: The Man and His Theories.** Hilaire Cuny. Translated by Patrick Evans. Eriksson, New York, 1966. 192 pp. Illus. \$5 (a popularization).

**Patterns for the Teaching of Science.** Norman Bland Massey. St. Martin's Press, New York, 1965. 263 pp. Illus.

**A Prologue to Population Geography.** Wilbur Zelinsky. Prentice-Hall, Englewood Cliffs, N.J., 1966. 160 pp. Illus. Paper, \$1.95. Foundations of Economic Geography Series, edited by Norton Ginsburg.

**A Psycho-Analytic Dialogue: The Letters of Sigmund Freud and Karl Abraham, 1907-1926.** Hilda C. Abraham and Ernst L. Freud, Eds. Translated from the German by Bernard Marsh and Hilda C. Abraham. Basic Books, New York, 1965. 424 pp. Illus. \$7.50.

**The Questioners: Physicists and the Quantum Theory.** Barbara Lovett Cline. Crowell, New York, 1965. 284 pp. Illus. \$5.

**The Rise of Technocrats: A Social History.** W. H. G. Armytage. Routledge and Kegan Paul, London; Univ. of Toronto Press, Toronto, Canada, 1965. 456 pp. \$9. Studies in Social History Series, edited by Harold Perkin.

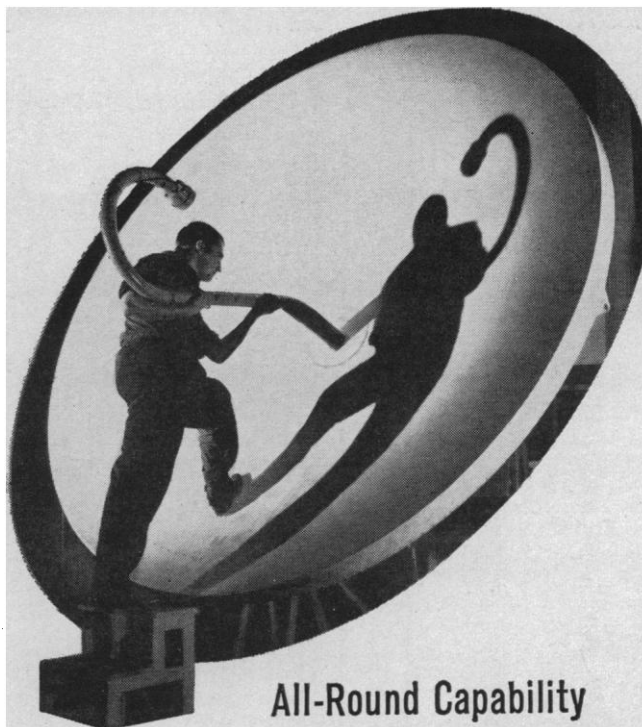
**Roberts Radio Current Meter Manual.** U.S. Department of Commerce, Washington, D.C., 1965 (order from Superintendent of Documents, Washington, D.C.). 141 pp. Illus. Paper, \$1.

**The Role of Psychiatry in Medical Education: An Appraisal and a Forecast.** Sidney L. Werkman. Published for the Commonwealth Fund by Harvard Univ. Press, Cambridge, Mass., 1966. 205 pp. \$4.75.

**Scandinavian Research Guide.** Prepared under the direction of Elin Törnudd and Claus Topsøe-Jensen. Nordforsk, Copenhagen, Denmark, ed. 2, 1965. 449 pp. Directory of Research Institutions within technology and physical sciences.

**Science and Human Affairs.** Richard E. Farson, Ed. Science and Behavior Books, Palo Alto, Calif., 1966. 224 pp. Paper, \$4.95. Fourteen papers; the Lucile P. Morrison lectures sponsored by the Western Behavioral Sciences Institute. "Where is the human race going?" by Gardner Murphy; "A humanistic conception of man" by Carl R. Rogers; "Human potentialities" by Aldous Huxley; "Lessons from the peak experiences" by Abraham H. Maslow; "The allures of a meaning in modern psychology" by Sigmund Koch; "Aspects of the acquaintance process" by Theodore Newcomb; "The use and misuse of language: Some thoughts on communication with one's children" by S. I. Hayakawa; "Developmental-interactive aspects of hypnosis" by Ernest R. Hilgard; "Memory: Fixation of experience" by Ralph Gerard; "Prejudice in perspective" by Gordon W. Allport; "An alternative to war or surrender" by Charles Osgood;

  
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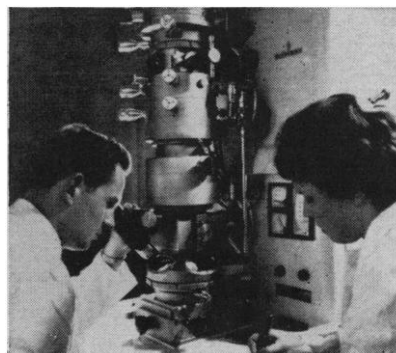


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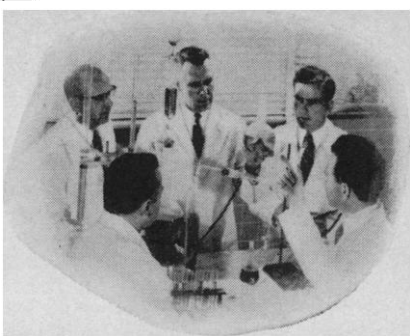
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**Sexual Reproduction.** Susan Michels. Published for the American Museum of Natural History by Natural History Press, Garden City, N.Y., 1966. 239 pp. Illus. Paper, \$1.25.

**Spacecraft and Missiles of the World, 1966.** William E. Howard and James Baar. Harcourt, Brace, and World, New York, 1966. 112 pp. Illus. \$6.50.

**The Story of Life.** Reayat Khan, Moonis Raza, and Shakti Ahmed. Asia Publishing House; Taplinger, New York, 1966. 226 pp. Illus. \$6.50.

**The Superior Student in American Higher Education.** Joseph W. Cohen, Ed. McGraw-Hill, New York, 1966. 325 pp. \$7.95. Ten papers: "Development of the honors movement in the United States" by Joseph W. Cohen; "The first coordinated effort: The ICSS" by Joseph W. Cohen; "The superior student: Characteristics, aspirations, and needs" by James H. Robertson; "Honors and the liberal arts colleges" by Walter D. Weir; "Honors and the university" by Dudley Wynn; "Department honors at the University of Kansas: A case history" by George R. Waggoner; "Honors and the sciences" by Francis J. Reithel; "Challenging the superior student in the small private college" by William E. Cadbury, Jr.; "Honors programs in the secondary schools" by Edwin Fenton; and "Evaluating honors programs: History, problems, and prospects" by Paul Heist and Lois Langland.

**Specialized Information Centers.** Allen Kent. Spartan Books, Washington, D.C., 1965. 296 pp. Illus. \$9.

**Tales Told by Fossils.** Carroll Lane Fenton. Doubleday, Garden City, N.Y., 1966. 190 pp. Illus. \$4.95.

**Teilhard de Chardin und die moderne Theorie der Evolution der Organismen.** Gerd von Wahlert. Fischer, Stuttgart, Germany, 1966. 51 pp. Paper, DM. 8.50.

**Time.** Selected lectures on time and relativity, the arrow of time and the relation of geological and biological time, and on men of science. S. T. Butler and H. Messel, Eds. Pergamon, New York, 1965. 315 pp. Illus. Paper, \$3.95. Commonwealth and International Library.

**Trilobite, Dinosaur, and Man: The Earth's Story.** Clifford D. Simak. St. Martin's Press, New York, 1966. 314 pp. Illus. \$5.95.

**The Triumph of the Therapeutic: Uses of Faith after Freud.** Philip Rieff. Harper and Row, New York, 1966. 286 pp. \$5.95.

**Triumphs of Biology.** Philip Goldstein. Doubleday, Garden City, N.Y., 1965. 312 pp. Illus. \$4.95.

**The University in Transition.** James A. Perkins. Princeton Univ. Press, Princeton, N.J., 1966. 100 pp. \$2.95. The Stafford Little Lectures.

**The University Looks Abroad: Approaches to World Affairs at Six American Universities.** Walker, New York, 1965. 320 pp. \$6.

**The West Can Win: A Study in Science and World Power.** Donald Wilhelm, Jr. Pall Mall Press, London; Praeger, New York, 1966. 208 pp. \$5.95.

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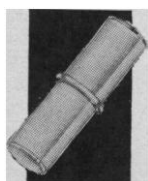


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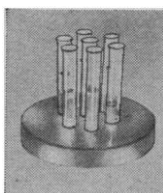
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**The Wonder of Electricity.** Hy Ruchlis. Harper and Row, New York, 1965. 226 pp. Illus. \$3.95.

**The World of Coral.** Robert Silverberg. Duell, Sloan, and Pearce, New York, 1965. 158 pp. Illus. \$3.95.

**The Year Outdoors.** A New Jersey Chronicle. Eva Rodimer. Rutgers Univ. Press, New Brunswick, N.J., 1966. 304 pp. Illus. \$6.95.

### Conference and Symposium Reports

**Analytical Techniques for Hydraulic Cements and Concrete.** A symposium (Lafayette, Ind.), June 1965. American Soc. for Testing and Materials, Philadelphia, 1966. 99 pp. Illus. Paper, \$4.75; members, \$3.30. Six papers: "Methods used in petrographic studies of concrete" by B. Erlin; "Use of infrared spectrophotometry for the detection and identification of organic additions in cement and admixtures in hardened concrete" by W. G. Hime, W. F. Mivelaz, and J. D. Connolly; "Quantitative x-ray diffraction measurements by fast scanning" by R. L. Handy; "Substitution of alkali oxides in tricalcium aluminate" by D. E. Day; "Determination of acetate additions in cement by gas chromatography" by A. S. Wexler; and "Application of spectrophotometric and EDTA methods for rapid analysis of cement and raw materials" by Z. T. Jugovic.

**Bernoulli (1713), Bayes (1763), [and] Laplace (1813): Anniversary Volume.** Proceedings, International Research Seminar, Statistical Laboratory, University of California (Berkeley), 1963. Jerzy Neyman and Lucien M. Le Cam, Eds. Springer-Verlag, New York, 1965. 274 pp. Illus. Paper, \$9. Fifteen papers: "Contribution to the theory of epidemics" by R. Bartoszyński, J. Łoś, and M. Wycech-Łoś; "Study of some statistical models introduced by problems of physics" by A. Blanc-Lapierre, P. Dumontet, and B. Picinbono; "Stationary and isotropic random functions" by A. Blanc-Lapierre and P. Faure; "On the estimation of a multivariate location parameter with squared error loss" by R. Cogburn; "Some notes on Laplace" by F. N. David; "Extension of the Kolmogorov-Smirnov test to regression alternatives" by J. Hájek; "First-passage percolation, subadditive processes, stochastic networks, and generalized renewal theory" by J. M. Hammersley and D. J. A. Welsh; "Direct product branching processes and related induced Markoff chains: 1, calculations of rates of approach to homozygosity" by S. Karlin and J. McGregor; "Automatically controlled sequence of statistical procedures" by T. Kitagawa; "On the distribution of sums of independent random variables" by L. Le Cam; "Limit solutions of sequences of statistical games" by J. Łoś; "Some remarks on statistical inference" by E. J. G. Pitman; "Approximation of improper prior measures by prior probability measures" by C. M. Stein; "Stationary Gaussian processes satisfying the strong mixing condition and best predictable functionals" by A. M. Yaglom; and "Strong limit theorems for stochastic processes and orthogonality conditions for probability measures" by A. M. Yaglom.

**Biological Effects of Asbestos** (*Ann. N.Y. Acad. Sci.* 132). Harold E. Whipple, Ed. New York Acad. of Sciences, New York, 1965. 765 pp. Illus. Paper, . . . Fifty-three papers presented at a conference held in Oct. 1964: Asbestos Materials in Modern Technology (3 papers); Lung Tissue and Mineral Matter: Problems of Pathogenesis (6 papers); Human Exposure to Asbestos: Industrial Populations (4 papers); Human Exposure to Asbestos: Community Studies (5 papers); Human Exposure to Asbestos: Dust Controls and Standards (7 papers); Clinical Studies of Pulmonary Asbestosis (7 papers); Asbestos and Neoplasia: Experimental (5 papers); Asbestos and Neoplasia: Epidemiology (8 papers); Asbestos and Neoplasia: Diffuse Mesothelial Tumors (5 papers); and Problems and Perspectives (3 papers).

**Chemical Reaction Engineering.** Proceedings, Third European Symposium (Amsterdam), September 1964. C. van Heerden, Ed. Pergamon, New York, 1965. 332 pp. Illus. \$20. Twenty-seven papers: Commercial processes (2 papers); Laboratory and pilot plant studies (4 papers); Reactors (5 papers); Chemical and physical phenomena (6 papers); Commercial processes (5 papers); and Mathematical models and process optimization (5 papers). The papers are in English or German.

**Controls of Metamorphism.** A symposium (Liverpool, England), January 1964. Wallace S. Pitcher and Glenys W. Flinn, Eds. Wiley, New York, 1965. 368 pp. Illus. \$13.50. Twenty papers presented at a symposium held under the auspices of the Liverpool Geological Society.

**Environmental Variables in Oral Disease.** A symposium. *AAAS Publ. No. 87*. Seymour J. Kreshover and F. J. McClure, Eds. AAAS, Washington, D.C., 1966. 324 pp. Illus. Members, \$7.75; others, \$8.75. Seventeen papers: "Variable abnormal environments and oral diseases" by James A. English and F. J. McClure; "The changing nutritional environment" by Arnold E. Schaefer; "World epidemiology and oral health" by Albert L. Russell; "Trace element variables related to oral health" by Fred L. Losee; "Protein and oral health" by Edward A. Sweeney; "Salivary components and their relationship to oral disease" by Gordon H. Rovelstad; "Genetic and environmental factors in experimental dental caries" by Rachel H. Larson; "The mechanism of the caries-inhibiting effect of fluoride" by Harold G. McCann and Finn Brudevold; "Nutrition and dental caries—effects of phosphate supplements" by Irwin I. Ship; "Factors influencing crosslinks in collagen: Lathyrism and proteolytic enzymes" by George R. Martin, Christyna E. Mecca, and Karl A. Piez; "Connective tissues and changes with certain oral diseases" by Harold M. Fullmer; "Enzymatic mechanisms related to oral disease" by Stuart A. Narrod and R. C. Braunberg; "Biology of the periodontium" by Barnet M. Levy; "Environment and

oral-facial malformations" by C. T. G. King; "Drug metabolism and teratogenic studies" by John J. Burns; "Congenital malformations experimentally induced by hypervitaminosis A" by Harold Kalter and Frederick M. Deuschle; and "Antibody theories in congenital malformations" by Jan Langman.

**Essays in Economic Anthropology.** Proceedings, Annual Spring Meeting, American Ethnological Society (Lexington, Ky.), April 1965. June Helm, Ed. Univ. of Washington Press, Seattle, 1965. 143 pp. Illus. Paper, \$2.50. Eight papers: "Primitive, archaic, and modern economies: Karl Polanyi's contribution to economic anthropology and comparative economy" by George Dalton; "Postwar economic changes among the Hopi" by Edward A. Kennard; "Patterns of allocation among the Arctic Drainage Dene" by June Helm; "Trade and politics: A comparison of Papuan and New Guinea traders" by Thomas G. Harding; "The developmental cycle of the family business in rural Mexico" by Robert Hunt; "The Mexican marketplace then and now" by David Kaplan; "Exchange-value and the diplomacy of primitive trade" by Marshall D. Sahlins; and "Stratification and industrialization: A case study of an Ecuadorian sugar plantation" by Norris G. Lang.

**Interactions of Space Vehicles with an Ionized Atmosphere.** S. F. Singer, Ed. Pergamon, New York, 1965. 518 pp. Illus. \$22.50. Fourteen papers: Plasma Sheaths—Physical Measurement and Theory (6 papers); and Radiowave Reflections—Observations and Hypothesis (8 papers). Based on papers presented at a Memorial Symposium for Dr. Robert H. Goddard; the symposium was organized by the American Astronautical Society.

**Nebraska Symposium on Motivation, 1965.** David Levine, Ed. Univ. of Nebraska Press, Lincoln, 1965. 356 pp. Illus. Paper, \$2.50; cloth, \$5.50. Six papers: "Motivation and behavior" by Howard H. Kendler; "Some needed developments in the motivational theory of emotions" by Robert Ward Leeper; "Reinforcement theory" by David Premack (comments by Robert Ward Leeper); "Intrinsic motivation and its role in psychological development" by J. McV. Hunt; "Ethnocentric and other altruistic motives" by Donald T. Campbell; and "Motivation in an informational psychology" by J. P. Guilford.

**Science and Medicine in Central Africa.** Proceedings, Central African Scientific and Medical Congress (Lusaka, Northern Rhodesia), August 1963. George J. Snowball, Ed. Pergamon, New York, 1965. 1008 pp. Illus. \$30. Eighty-three papers and 11 abstracts: Physical Sciences including Geology, Meteorology, and Engineering (20 papers, 3 abstracts); Biological Sciences including Agriculture (27 papers, 3 abstracts); Social Sciences including Archeology (13 papers, 1 abstract); and Medical Sciences (23 papers, 4 abstracts).

**Instruments and Apparatus for Soil and Rock Mechanics.** A symposium (Lafayette, Ind.), June 1965. E. T. Selig and others. American Soc. for Testing and Materials, Philadelphia, 1965. 175 pp. Illus. \$8.50; members, \$5.95. Eleven papers.

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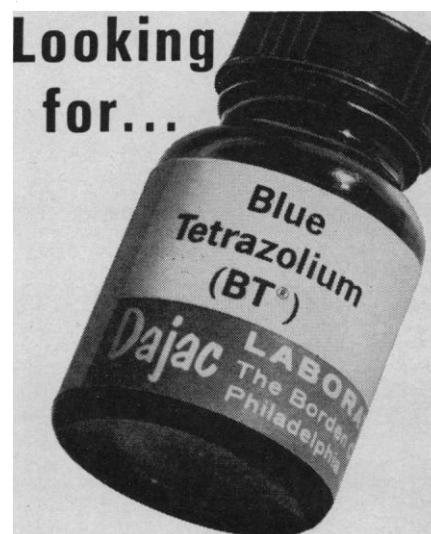
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