

are currently in use. The descriptions of tube-type subcarrier discriminators and tube-type magnetic tape recorders could be misleading, even if there were an acknowledgment that the models described were introduced at least 7 or 8 years ago. The failure to mention the 2.2-Gc to 2.3-Gc telemetry band is difficult to understand. By 1970, telemetry users must vacate the 215-Mc to 260-Mc band, and many programs are now operating in the higher frequency band.

The format of the book is attractive, and the text is easy to read. I noted few typographical errors.

VERNON B. MORRIS, JR.  
*Westinghouse Electric Corporation,  
Systems Division, Baltimore, Maryland*

## Mycology

**The Fungi.** An advanced treatise. vol. 1, *The Fungal Cell*. G. C. Ainsworth and Alfred S. Sussman, Eds. Academic Press, New York, 1965. xviii + 748 pp. Illus. \$24.

This volume, the first in a projected series of three, fills a long-felt need for an authoritative, up-to-date summary of information on the structure and the biochemical and physiological activities of the fungus cell. The first two chapters, which can scarcely be considered as advanced, constitute the introduction and provide a historical background and a review of the structures and reproduction of fungi. These are followed by a 12-chapter section entitled "Cell Components," and a one-chapter section called "Gene Action." The chapters are well organized in sequence as well as in content, with numerous subheadings, and they are well documented with recent references. An author index, a subject index, and an index to organisms complete the volume.

The illustrations are excellent. Most of the reviews are well written, but some have a tendency to be choppy, with subject matter in as many as four subdivisions being discussed on a single page. Each chapter is by a specialist in the subject treated. For the most part the authors have been content to review the literature and their own research. I would appreciate (and others probably would also) more discussion of the author's viewpoint on the topic that he considers and his

ideas on current and future problems in the area. Only one chapter includes such discussion.

Topics that will be of specific interest to the teacher of mycology include the structure of the cell wall, flagella, the ultrastructure of the cells, and nuclear behavior during mitosis and meiosis. Several topics deal specifically with biochemical activities—"Chemical Constituents of the Cell," and "Carbon Metabolism" (an extensive review). Certain topics will be of special interest to the fungus physiologist who may be concerned primarily with the growth of fungi—uptake and translocation of materials, various phases of the chemical environment, factors of the physical environment, kinetics of growth, mechanism of extension and branching, growth rhythms, and special techniques. The review of gene action deals almost entirely with *Neurospora*.

Although the primary purpose of this volume appears to be to serve as a reference for the teacher and researcher, the advanced graduate student who is interested in fungi will find it equally valuable. In brief, the volume represents a remarkably successful attempt to bring together under one cover the vast amount of information on the fungus cell. This book should be on the desk of every research-minded mycologist and fungus physiologist, but the price of the volume will prevent it from reaching the bookshelf of all of the biologists who may wish to refer to it frequently.

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## New Books

### General

**Adolescents and the Schools.** James S. Coleman. Basic Books, New York, 1965. 135 pp. Illus. \$4.50.

**Air Conservation.** Report of the Air Conservation Commission of the AAAS. AAAS Publication No. 80. Richard Landau, Ed. AAAS, Washington, D.C., 1965. 347 pp. Illus. Cash price to members, \$7; others \$8.

**Awareness of Dying.** Barney G. Glaser and Anselm L. Strauss. Aldine, Chicago, 1965. 319 pp. \$6.95. Observations Series, edited by Howard S. Becker.

**Behaviour in Uncertainty: And Its Social Implications.** John Cohen. Basic Books, New York, 1965. 207 pp. Illus. \$5.50.

**Better Report Writing.** Willis H. Waldo. Reinhold, New York, ed. 2, 1965. 284 pp. Illus. \$10.

**British Miniature Electronic Components Data 1965-66.** G. W. A. Dummer and J. Mackenzie Robertson, Eds. Pergamon, New York, 1965. 1000 pp. Illus. \$28.

**The Challenge of Science.** George Boas. Univ. of Washington Press, Seattle, 1965. 113 pp. \$2.95.

**The Correspondence of Henry Oldenburg.** vol. 1, 1641-1662. Translated and edited by A. Rupert Hall and Marie Boas Hall. Univ. of Wisconsin Press, Madison, 1965. 544 pp. \$12.50.

**Crosscuts Through History.** Dagobert D. Runes. Philosophical Library, New York, 1965. 126 pp. \$2.75.

**Decision-Making for Defense.** Charles J. Hitch. Univ. of California Press, Berkeley, 1965. 91 pp. \$2.95.

**Famous Problems of Mathematics.** Solved and unsolved mathematical problems from antiquity to modern times. Heinrich Tietze. Translated from the second revised German edition (1959). Beatrice Kevitt Hofstadter and Horace Komm, Translation Eds. Graylock Press, New York, 1965. 383 pp. Illus. \$10.

**The Free World Colossus.** A critique of American foreign policy in the cold war. David Horowitz. Hill and Wang, New York, 1965. 451 pp. \$6.95.

**Gardening in Hot Countries.** Arthur Thomas. Faber and Faber, London, 1965. 207 pp. Illus. 30s. Botanical Monographs, vol. 4, edited by W. O. James.

**The Giant Canada Goose.** Harold C. Hanson. Southern Illinois Univ. Press, Carbondale, 1965. 250 pp. Illus. \$9.75.

**Growth.** James M. Tanner, Gordon Rattray Taylor and the Editors of *Life*. Time Inc., New York, 1965. 200 pp. Illus. \$3.95. A volume in the *Life* Science Library.

**Handbook of California Birds.** Vinson Brown and Henry G. Weston, Jr., Naturegraph, Healdsburg, Calif., ed. 2, 1965. 160 pp. Illus. Paper, \$2.95; cloth, \$4.50.

**The Heinz Handbook of Nutrition.** Benjamin T. Burton. Published for H. J. Heinz Company by McGraw-Hill, New York, ed. 2, 1965. 472 pp. Illus. \$6.75.

**A History of Parasitology.** W. D. Foster. Livingstone, London; Williams and Wilkins, Baltimore, 1965. 210 pp. Illus. \$8.25.

**How To Succeed in High School: And Score High on College Entrance Examinations.** George Weigand. Barron's Educational Series, Great Neck, N.Y., 1965. 135 pp. Illus. Paper, 95¢.

**Life Beyond the Earth.** Samuel Moffat and Elie A. Shneour. Natl. Science Teachers Assoc., Washington, D.C., 1965. 156 pp. Illus. Paper, 50¢. Vistas of Science Series, No. 11.

**Lighthouse of the Skies.** The Smithsonian Astrophysical Observatory: Background and history, 1846-1955. Bessie Zaban Jones. Smithsonian Institution, Washington, D.C., 1965. 355 pp. Illus. \$5.

**Mr. Tompkins in Paperback.** G. G. G. G. Cambridge Univ. Press, New York, 1965. 198 pp. Illus. Paper, \$1.95.

(Continued on page 1077)

## NEW BOOKS

(Continued from page 1021)

**The Mystery of Matter.** Prepared by the American Foundation for Continuing Education. Louise B. Young, Ed. Oxford Univ. Press, New York, 1965. 726 pp. Illus. \$10. One hundred selected writings on the following topics: Can matter be measured? (1 paper); Is matter infinitely divisible? (10 papers); Is matter substance or form? (9 papers); What is the secret of atomic energy? (13 papers); Is the universe asymmetric? (6 papers); What is the origin of living matter? (11 papers); Is living matter immortal? (10 papers); Does order arise from disorder? (8 papers); What is life? (13 papers); Will fallout affect the course of evolution? (8 papers); and Is science destroyer or creator? (11 papers).

**Neighbors of the Earth: Planets, Comets, and the Debris of Space.** Thornton Page and Lou Williams Page, Eds. Macmillan, New York, 1965. 352 pp. Illus. \$7.95. The Macmillan Sky and Telescope Library of Astronomy, vol. 2. A compilation of 113 articles published during the last 34 years in *The Telescope*, *The Sky*, and *Sky and Telescope*. The topics are: The warmer planets: Mercury and Venus (21 papers); Mars, abode of life? (23 papers); the major planets and Pluto (26 papers); Asteroids: Bits or pieces? (4 papers); Comets, so different from the rest (10 papers); Meteors, meteorites, and meteoroids (9 papers); Atmospheres, aurorae, and exospheres (12 papers); and The debris of interplanetary space (8 papers).

**The New Intelligent Man's Guide to Science.** Isaac Asimov. Basic Books, New York, ed. 2, 1965. 880 pp. Illus. \$9.95 until 31 Dec. 1965; \$12.50.

**New Light on Space and Time.** Dewey B. Larson. North Pacific Publishers, Portland, Ore., 1965. 272 pp. Illus. \$6.

**The New Treasury of Science.** Harlow Shapley, Samuel Rapport, and Helen Wright. Harper and Row, New York, 1965. 780 pp. Illus. \$8.95. Based on the Treasury of Science (1943); of the 84 papers in this edition, 27 appeared in the original 1943 edition.

**Phosphates in Agriculture.** Vincent Sauchelli, Reinhold, New York; Chapman and Hall, London, ed. 2, 1965. 285 pp. Illus. \$12.50.

**Photography for Scientific Publication: A Handbook.** Alfred A. Blaker. Freeman, San Francisco, 1965. 170 pp. Illus. \$8.

**The Planet Uranus: A History of Observation, Theory, and Discovery.** A. F. O'D. Alexander. Elsevier, New York, 1965. 316 pp. Illus. \$12.75.

**Porteus Maze Test: Fifty Years' Application.** Stanley D. Porteus. Pacific Books, Palo Alto, Calif., 1965. 328 pp. Illus. \$7.50.

**The Prediction of Academic Performance: A Theoretical Analysis and Review of Research.** David E. Lavin. Russell Sage Foundation, New York, 1965. 182 pp. Illus. \$4.

**Pulping Processes.** Sven A. Rydholm. Interscience (Wiley), New York, 1965. 1279 pp. Illus. \$37.50.

**Ritual of the Bacabs.** Translated and



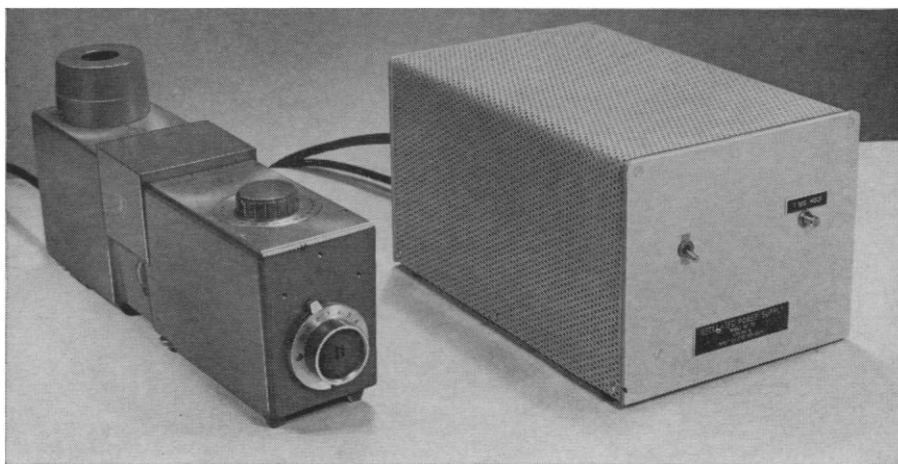
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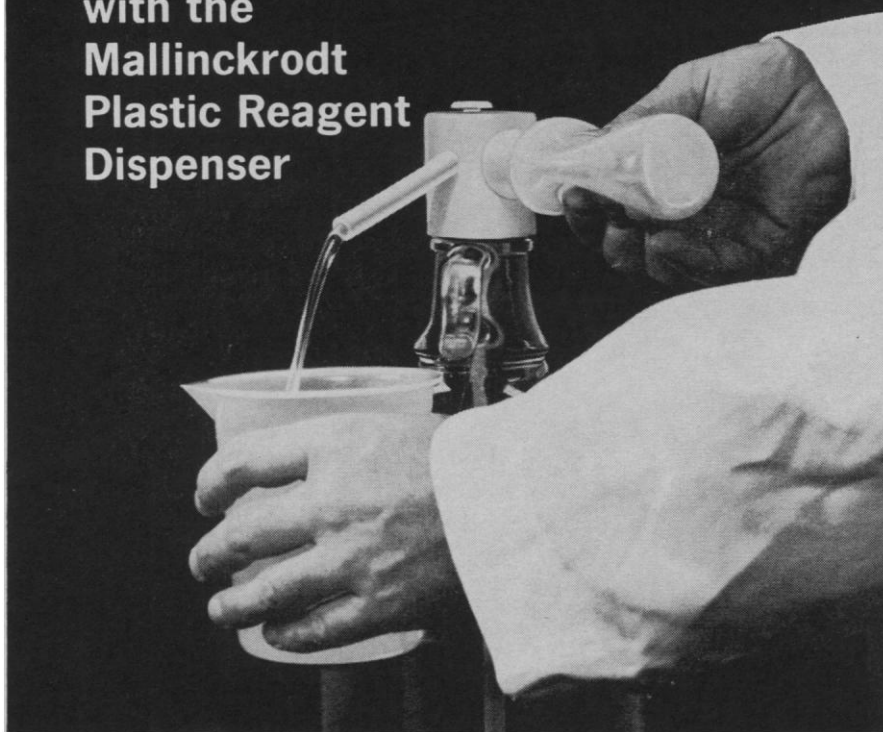
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edited by Ralph L. Roys. Univ. of Oklahoma Press, Norman, 1965. 223 pp. Illus. \$5.95.

**The Savage and the Innocent.** David Maybury-Lewis. World, Cleveland, Ohio, 1965. 270 pp. Illus. \$4.95.

**Scales and Weights: A Historical Outline.** Bruno Kisch. Yale Univ. Press, New Haven, Conn., 1965. 321 pp. Illus. \$15.

**Science and Culture: A Study of Cohesive and Disjunctive Forces.** Gerald Holton, Ed. Houghton Mifflin, Boston, Mass., 1965. 384 pp. \$6. The Daedalus Library, vol. 4. Fifteen papers contributed by Harry Levin, James S. Ackerman, Edmund R. Leach, Talcott Parsons, Harvey Brooks, Gerald Holton, Don K. Price, Gyorgy Kepes, Margaret Mead, Oscar Handlin, Eric Weil, Herbert Marcuse, Daniel Bell, René Dubos, and Robert S. Morison and a report by the American Association for the Advancement of Science Committee on Science in the Promotion of Human Welfare.

**Science and Society.** Norman Kaplan, Ed. Rand McNally, Chicago, Ill., 1965. 625 pp. Illus. Rand McNally Sociology Series; 39 papers on the following topics: Prologue to the present (6 papers); Science as a changing institution (4 papers); Scientific research and laboratory organization (5 papers); National science establishments (7 papers); Science and policy (7 papers); and Prologue to the future (10 papers).

**Science in History.** J. D. Bernal. Hawthorn, New York, ed. 3, 1965. 1067 pp. \$12.95.

**Science in Hungary.** Tibor Erdely-Gruz and Imre Trencsenyi-Waldapfel, Eds. Corvina Press, Budapest, Hungary, 1965. 348 pp. Illus. Twenty papers.

**Science in Nineteenth-Century America: A Documentary History.** Nathan Reingold, Ed. Hill and Wang, New York, 1964. 351 pp. Illus. Paper, \$2.45. American Century Series.

**Selected Papers of John Shaw Billings.** Compiled, with a life of Billings, by Frank Bradway Rogers. Medical Library Assoc., Chicago, Ill., 1965. 306 pp. \$6.

**The Smithsonian Institution.** Walter Karp. Published by Smithsonian Institution, Washington, D.C., in association with the Editors of American Heritage Magazine, New York, 1965. 127 pp. Illus. \$2.95.

**Smoking, Health, and Personality.** H. J. Eysenck. Basic Books, New York, 1965. 166 pp. Illus. \$4.95.

**Songs of the Yokuts and Paiutes.** Alfred Pietroforte. Naturegraph Publishers, Healdsburg, Calif., 1965. 64 pp. Illus. Paper, \$1.50; cloth, \$3.50.

**A Theatre of Machines.** A. G. Keller. Macmillan, New York, 1965. 121 pp. Illus. \$6.

**Three Theories of Child Development.** Henry W. Maier. Harper and Row, New York, 1965. 332 pp. Illus. \$6.75.

**The Viruses.** Helena Curtis. Published for the American Museum of Natural History by the Natural History Press, Garden City, N.Y., 1965. 238 pp. Illus. \$4.95.

**Voices from the Sky: Previews of the Coming Space Age.** Arthur C. Clarke. Harper and Row, New York, 1965. 251 pp. \$3.95.

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### Important Texts & References

#### Claus & Tyler—Pharmacognosy

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#### Frandsen—Anatomy & Physiology of Farm Animals

This clearly written text for undergraduate students is believed to be the only presently available work that surveys, in such detailed fashion, both the anatomy and physiology of farm animals. The fundamentals as they apply to all animals are considered first, followed by species differences in the cow, horse, sheep, hog and dog. Greatest emphasis is on the cow and horse. Special attention is given to the digestive and reproductive systems, with chapters on the mammary glands, milk secretion and endocrinology. **1965. 501 Pages, 7" x 10". 231 Illustrations, 2 in Color. \$12.50.**

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### Biological and Medical Sciences

**Advances in Lipid Research.** vol. 3. Rodolfo Paoletti and David Kritchevsky, Eds. Academic Press, New York, 1965. 277 pp. Illus. \$13. Six papers: “The metabolism of polyenoic fatty acids” by E. Klenk; “The analysis of human serum lipoprotein distributions” by Alicia M. Ewing, Norman K. Freeman, and Frank T. Lindgren; “Factors affecting lipoprotein metabolism” by Angelo M. Scanu; “The action of drugs on phospholipid metabolism” by G. B. Ansell; “Brain sterol metabolism” by A. N. Davison; and “Lipases” by E. D. Wills.

**The African Genera of Acridoidea.** V. M. Dirsh. Published for the Anti-Locust Research Centre by Cambridge Univ. Press, New York, 1965. 593 pp. Illus. \$37.50.

**Anatomy and Physiology of Farm Animals.** R. D. Frandsen. Lea and Febiger, Philadelphia, 1965. 501 pp. Illus. \$12.59.

**Atlas of Descriptive Histology.** Edward J. Reith and Michael H. Ross. Harper and Row, New York, 1965. 222 pp. Illus. \$8.50.

**Avian Physiology.** Paul D. Sturkie. Cornell Univ. Press, Ithaca, N.Y., ed. 2, 1965. 796 pp. Illus. \$15.

**Basic Bacteriology: Its Biological and Chemical Background.** Carl Lamanna and M. Frank Mallette. Williams and Wilkins, Baltimore, ed. 3, 1965. 1015 pp. Illus. \$17.50.

**The Bats of West Africa.** D. R. Rosevear. British Museum (Natural History), London, 1965. 436 pp. Illus. £7 15s.

**The Beetles of the Pacific Northwest.** Pt. 4, *Macroductyles, Palpicornes, and Heteromera.* Melville H. Hatch. Univ. of Washington Press, Seattle, 1965. 278 pp. Illus. \$10. Univ. of Washington Publications in Biology, vol. 16. The contributors are David V. Miller, David V. McCorkle, Floyd Werner, and Dennis W. Boddy.

**Biochemistry.** S. P. Datta and J. H. Ottaway. Williams and Wilkins, Baltimore, 1965. 387 pp. Illus. \$6.75.

**Biogeography and Ecology in Antarctica.** J. van Miegheem and P. van Oye, Eds. Junk, The Hague, Netherlands, 1965. 790 pp. Illus. \$31.95. Monographiae Biologicae Series, vol. 5, edited by W. W. Weisbach and P. van Oye. Eighteen papers.

**Biological Science: Interaction of Experiments and Ideas.** Biological Sciences Curriculum Study, second course. Prentice-Hall, Englewood Cliffs, N.J., 1965. 447 pp. Illus. \$5.96 (teachers edition, 479 pp. \$6.84).

**Cell K.** Roderick P. Kernal. Butterworth, Washington, D.C., 1965. 160 pp. Illus. \$5.75. Molecular Biology and Medicine Series, edited by E. Edward Brittar.

**Comparative Vertebrate Anatomy.** Coleman J. Goin and Olive B. Goin. Barnes and Noble, New York, 1965. 256 pp. Illus. Paper, \$1.75. College Outline Series.

**Electroanalytical Methods in Biochemistry.** William C. Purdy. McGraw-Hill, New York, 1965. 368 pp. Illus. \$12.50.

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tions. O. G. Edholm and A. L. Bacharach, Eds. Williams and Wilkins, Baltimore, 1965. 426 pp. Illus. \$11. Fifteen papers.

**The First Year of Life.** A psychoanalytic study of normal and deviant development of object relations. René A. Spitz. International Universities Press, New York, 1965. 414 pp. Illus. \$8.50.

**Flora of Japan.** Jisaburo Ohwi. Translated from the Japanese editions (Tokyo, 1953 and 1957) by Jisaburo Ohwi. Frederick G. Meyer and Egbert H. Walker, Translation Eds. Smithsonian Institution, Washington, D.C., 1965. 1077 pp. Illus. \$25.

**Fluorine Chemistry.** vol. 4. Harold C. Hodge and Frank A. Smith. Academic Press, New York, 1965. 804 pp. Illus. \$28.

**Foundations of Anesthesiology.** vols. 1 and 2. Albert Faulconer, Jr., and Thomas E. Keys. Thomas, Springfield, Ill., 1965. vol. 1, 716 pp.; vol. 2, 623 pp. Illus. \$38.50.

**Fundamentals of Acid-Base Regulation.** James R. Robinson. Blackwell, Oxford, England, ed. 2, 1965. 91 pp. Illus. Paper.

**Fungal Genetics.** J. R. S. Fincham and P. R. Day. Davis, Philadelphia, ed. 2, 1965. 336 pp. Illus. \$9.95.

**The Fungi.** An advanced treatise. vol. 1, *The Fungal Cell*. G. C. Ainsworth and Alfred S. Sussman, Eds. Academic Press, New York, 1965. 766 pp. Illus. \$24. Twenty-nine papers; the sections are Introduction (2 papers); Cell Components (12 papers); Nutrition and Growth of Cells (14 papers); and Gene Action (1 paper).

**Genetic Analysis.** William K. Baker. Houghton Mifflin, Boston, 1965. 176 pp. Illus. Paper, \$2.50. *Riverside Studies in Biology Series*, edited by Theodosius Dobzhansky and H. Bentley Glass.

**Genetics in the Atomic Age.** Charlotte Auerbach. Oxford Univ. Press, New York, ed. 2, 1965. 119 pp. Illus. \$2.50.

**Genetik der Pilze.** Karl Esser and Rudolf Kuenen. Springer, Berlin, 1965. 503 pp. Illus. Paper, DM. 68.

**The Geography of Evolution: Collected Essays.** George Gaylord Simpson. Chilton, Philadelphia, 1965, 263 pp. Illus. \$5.50. Seven essays.

**Die Homosexualität beim Mann.** Kurt Freund. Hirzel, Leipzig, ed. 2, 1965. 333 pp. Illus. DM. 19.95.

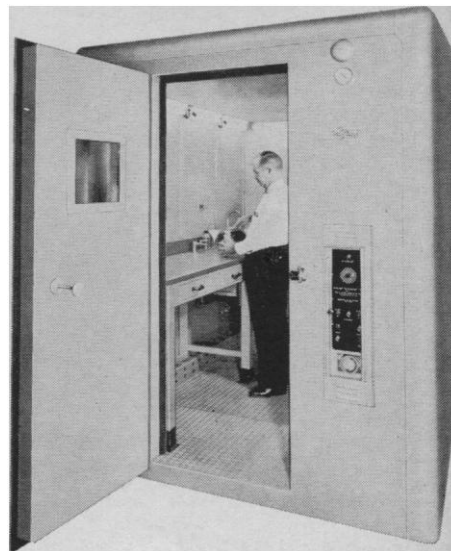
**Medicinal Plant Alkaloids.** An introduction for pharmacy students. Stephen K. Sim. Univ. of Toronto Press, Toronto, Canada, ed. 2, 1956. 195 pp. Illus. Paper, \$3.95.

**Methoden der Organischen Chemie (Houben-Weyl).** vol. 10, pt. 3, *Stickstoffverbindungen I*. Rudolf Strohm, Ed. Thieme, Stuttgart, 1965. 1019 pp. Illus. DM. 255.

#### Conference and Symposium Reports

**Ceramics and Man.** Frederick R. Matson, Ed. Aldine, Chicago, 1965. 315 pp. Illus. \$7.50. Twenty papers presented at a symposium (Burg Warstein), September 1961. Viking Fund Publications in

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