

salism are of prime concern in the present volume. The first chapter, on insects and their endosymbionts (A. Koch), raises the possibility that insect symbiosis with other organisms may have existed since the Devonian, the time when the roaches and the termites separated from their common ancestor. Seven major types of insects that are permanent bloodsuckers have endosymbionts. Among these insects are the triatomid bugs that carry Chagas' disease. The means by which symbionts are transmitted to the offspring are diverse in insects; they include invasion of the egg. The chapter on insect ectosymbiosis (A. Hartzell) considers the cases of arthropod with arthropod, as in mites with army ants, ants tending their ant "cows," and the slave-making ants. The fungus-growing ants, found from 40°N to 44° (not 40°) S, are in a mutualistic type of symbiotic relationship with several species of fungi that are not found except in the ant gardens. Ectosymbiosis in Wood-Inhabiting Insects (H. Francke-Grossmann) deals particularly with ambrosia beetles and their fungi. A fungus isolated from ambrosia-beetle galleries is considered to be a true ambrosia fungus when it produces in culture the same stages it produces in the tunnels. Beetles and attine ants are quite different in their relations with their fungi. "The only action of the beetles that could be regarded as a true fungus culture is the preparation of special beds consisting of feces and wood frass." In contrast, the ants forage for substrate, add their saliva and fecal droplets to it, and, after it has been cut to size, then pick up pieces of the mycelium and plant them on the particle.

Ectosymbiosis in Aquatic Insects (A. W. Steffan) treats such internal symbionts as ciliate protozoa, nematodes, and acarines. In turn insects may live on or in Porifera, Bryozoa, and Mollusca. The diversity of insects being what it is, there are numerous examples of insect-insect relations. Avian Symbiosis (H. Friedmann) deals with bird-arthropod, bird-mammal, and bird-bird relations. All three animals may be involved, as in the African oxpecker feeding regularly on ticks on African big game. Intestinal microorganisms of ruminants and other vertebrates (B. H. Howard) are considered more on the biochemical basis than they have been in earlier studies. Herbivores have the greatest microbial activity and in fact may have evolved only because of their

association with fiber-digesting microbes. Carbohydrate fermentation, nitrogen transformations, and lipid metabolism are considered, as is vitamin synthesis.

Each chapter has an extensive bibliography. The volume is worthwhile for this feature alone but goes far beyond in being a most useful consideration of a rapidly growing and complex field with infinite applications.

NEAL A. WEBER

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## Public Health Problem

**Transmission of Viruses by the Water Route.** Based on a symposium, Cincinnati, Ohio, December 1965. GERALD BERG, Ed. Interscience (Wiley), New York, 1967. 502 pp., illus. \$15.

The symposium reproduced in this volume was held in search of answers to such questions as: What is the significance of viruses in water? What methods are available for quantitative detection of small amounts of viruses in large volumes of water? What answers are needed to protect the public health from the transmission of viral diseases? In an attempt to answer such questions, 68 highly qualified scientists, engineers, and sanitarians presented and discussed 31 papers covering the general topics of survival of viruses in wastes and waste water, the minimal infective dose of viruses, the quantitative recovery of viruses from dilute suspensions, and the epidemiology of transmitting viral diseases by water. Although the answers to many questions of public health significance can be found in the papers, other new ones were raised by the participants which indicate that our knowledge is far from complete on the survival and transmission of viruses in water.

Because of the unevenness of the writing in several chapters, and especially because of what is recorded in some of the discussion sections, there is a lack of continuity. The book is therefore not easy to read from cover to cover. But it will serve as a valuable reference volume, for it contains much worthwhile information that is difficult to find elsewhere without an extended search. Parts of the discussion sections could have been edited more extensively or deleted; one wonders what kind

of controlled experiment in immunology, pathogenicity, or epidemiology the following statements represent: "Two years ago, 11 of my colleagues and I swam in a swimming pool which we had seeded with 10 TCID<sub>50</sub>/ml of Sabin poliovirus 2. This level of virus was insufficient to infect any of us. Of course, we had all received Salk vaccine and at least some of us had received Sabin vaccine. If we could have seeded with perhaps 10,000 TCID<sub>50</sub> per ml, we might have had some infection."

Techniques are cited in the book that are capable of detecting in sewage and polluted water such agents as the poliovirus, the virus thought to be responsible for infectious hepatitis in man, and certain enteroviruses of animals. As these methods are improved it may be possible to monitor water routinely for viruses, as is now done for fecal bacteria from man and animals.

With the poor distribution of natural waters for drinking purposes in certain areas, and with the rapid growth of the population, it will soon become necessary to renovate and reuse the waste water of many communities. Thus we will need to know all we can on this topic of this symposium.

The book contains remarkably few errors, and its physical makeup is excellent.

J. R. PORTER

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University of Iowa, Iowa City*

## Books Received

**Advances in Ecological Research.** vol. 4. J. B. Cragg, Ed. Academic Press, New York, 1967. 323 pp. Illus. \$13.50. Four papers.

**Advances in Physical Organic Chemistry.** vol. 5. V. Gold, Ed. Academic Press, New York, 1967. 428 pp. Illus. \$19.50. Six papers.

**Air Conditioning Engineering.** W. P. Jones. St. Martin's Press, New York, 1967. 518 pp. Illus. \$18.

**Algebra.** vol. 1. L. Rédei. Translated from the Hungarian edition. Pergamon Press, New York, 1967. 841 pp. Illus. \$21.50. International Series of Monographs in Pure and Applied Mathematics.

**Animal Toxins.** An international symposium (Atlantic City, N.J.), April 1966. Findlay E. Russell and Paul R. Saunders, Eds. Pergamon, New York, 1967. 442 pp. Illus. \$18.50. Forty-four papers.

**Animals of the North.** William O. Pruitt. Harper and Row, New York, 1967. 183 pp. Illus. \$5.95.

(Continued on page 416)

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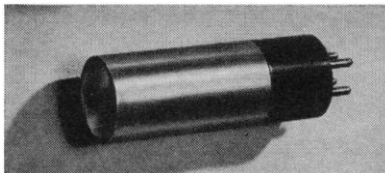
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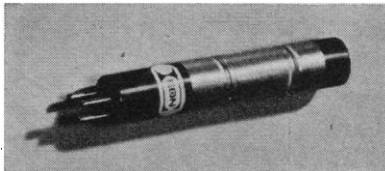


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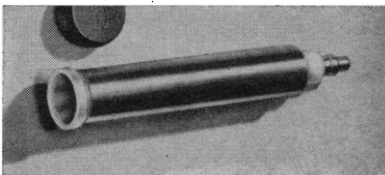
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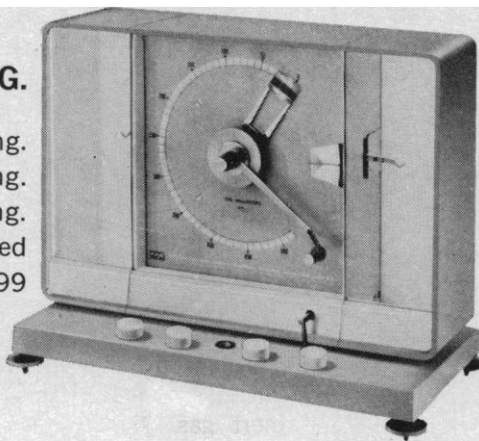


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## NEW BOOKS

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**Annual Review of Astronomy and Astrophysics.** vol. 5. Leo Goldberg, David Layzer, and John G. Phillips, Eds. Annual Reviews, Palo Alto, Calif., 1967. 702 pp. Illus. \$8.50. Twenty-one papers.

**The Bering Land Bridge.** Based on a symposium given at the 7th Congress of the International Association for Quaternary Research (Boulder, Colo.), August–September 1965. David M. Hopkins, Ed. Stanford Univ. Press, Stanford, Calif., 1967. 511 pp. Illus. \$18.50. Twenty-four papers.

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**Conformation of Biopolymers.** vol. 1. Papers read at an international symposium (Madras, India), January 1967. G. N. Ramachandran, Ed. Academic Press, New York, 1967. 439 pp. Illus. \$19.25. Forty-seven papers.

**Contemporary Change in Traditional Societies.** vol. 2, *Asian Rural Societies.* Julian H. Steward, Ed. Univ. of Illinois Press, Urbana, 1967. 362 pp. Illus. \$10. Five papers.

**Countercurrent Separation Processes.** H. R. C. Pratt. Elsevier, New York, 1967. 559 pp. Illus. \$34.

**Cyclobutadiene and Related Compounds.** M. P. Cava and M. J. Mitchell. Academic Press, New York, 1967. 517 pp. Illus. \$22.

**Detection and Determination of Trace Elements.** Maurice Pinta. Israel Program for Scientific Translations, Jerusalem. 1966; Davey, New York, 1967. 622 pp. Illus. \$29.50.

**The Development of Physical Theories.** J. Gordon Stiepe, Jr. McGraw-Hill, New York, 1967. 496 pp. Illus. \$10.50.

**Diesel Fuel Oil.** A symposium (Atlantic City, N.J.), June–July 1966. American Soc. for Testing and Materials, Philadelphia, 1967. 120 pp. Illus. Paper, \$7.50. Seven papers.

**Electrical Characteristics of Transistors.** R. L. Pritchard. McGraw-Hill, New York, 1967. 731 pp. Illus. \$19.50. McGraw-Hill Electronic Science Series.

**Electrical Properties of Semiconductor Surfaces.** Daniel R. Frankl. Pergamon. New York, 1967. 326 pp. Illus. \$13.50. International Series of Monographs on Semiconductors, vol. 7.

**Electrodynamics of Moving Media.** Paul Penfield, Jr. and Hermann A. Haus. M.I.T. Press, Cambridge, Mass., 1967. 288 pp. Illus. \$12.50.

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**Tumor Balance.** Proceedings of an international symposium (Chicago), October 1966. Sponsored by the Argonne Cancer Research Hospital. Robert W. Wissler, Thomas L. Dao, and Sumner Wood, Jr., Eds. Univ. of Chicago Press, Chicago, 1967. 366 pp. Illus. \$12.50. Twenty-one papers.

**Euglenoid Flagellates.** Gordon F. Lee-dale. Prentice-Hall, Englewood Cliffs, N.J., 1967. 256 pp. Illus. \$6.95. Prentice-Hall Biological Science Series.

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**Fluid Dynamics of Multiphase Systems.** S. L. Soo. Blaisdell (Ginn), Waltham, Mass., 1967. 544 pp. Illus. \$16.

**Fundamentals of Electronic Computers: Digital and Analog.** Matthew Mandl. Prentice-Hall, Englewood Cliffs, N.J., 1967. 360 pp. Illus. \$10.75. **Manual of Laboratory Experiments.** 109 pp. Illus. Paper, \$3.95.

**General Palaeontology.** A. Brouwer. Translated from the Dutch edition (Zeist, 1959) by R. H. Kaye. Univ. of Chicago Press, Chicago, 1967. 224 pp. Illus. \$7.50.

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**Kabloona and Eskimo in the Central Keewatin.** F. G. Vallee. Canadian Research Centre for Anthropology, Ottawa, 1967. 244 pp. Illus. Paper, \$5.

**The Language of Science.** Theodore H. Savory. Deutsch, London, ed. 2; Oxford Univ. Press, New York, 1967. 173 pp. \$4.80.

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**Molecular Complexes.** J. Rose. Pergamon, New York, 1967. 187 pp. Illus. \$8.

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**Outline of Histology.** Gerrit Bevelander. Mosby, St. Louis, ed. 6, 1967. 84 pp. Illus. Paper, \$6.50.

**Penguin Science Survey 1967: The Biology of Sex.** Anthony Allison, Ed. Penguin Books, Baltimore, 1967. 288 pp. Illus. Paper. Fifteen papers.

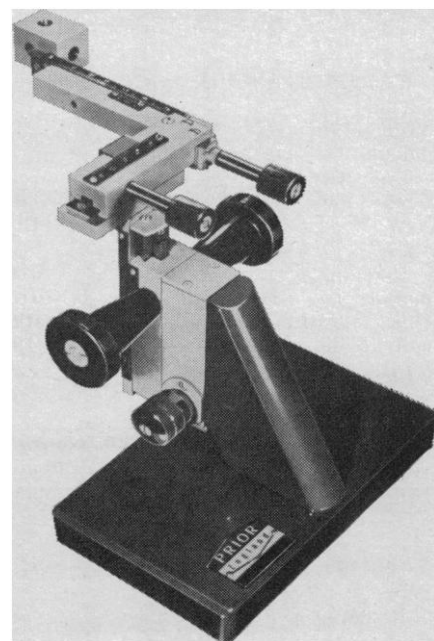
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Reprint, New York, 1967. vol. 1, 780 pp.; vol. 2, 693 pp. \$35 for both volumes. Reprint of ed. 2, 1847. Sources of Science, No. 41.

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**Plants as Organisms: Laboratory Studies of Plant Structure and Function.** Robert M. Page. Freeman, San Francisco, 1967. 93 pp. Illus. Paper, \$2.75.

**Portraits from a Shooting Gallery: Life Styles from the Drug Addict World.** Seymour Fiddle. Harper and Row, New York, 1967. 378 pp. \$7.50.

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**The Star Lovers.** Robert S. Richardson. Macmillan, New York, 1967. 320 pp. Illus. \$7.50.

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**A Survey of the Parasites of Wild Mammals and Birds in Israel.** Part 1, *Ectoparasites*. O. Theodor and M. Costa. Israel Acad. of Sciences and Humanities, Jerusalem; Davey, New York, 1967. 126 pp. Illus. Paper, \$4.

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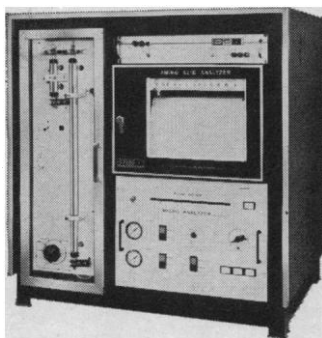
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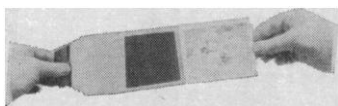
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**Thermoelectric and Thermomagnetic Effects and Applications.** T. C. Harman and J. M. Honig. McGraw-Hill, New York, 1967. 410 pp. Illus. \$17.50. Lincoln Laboratory Publications.

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**Universal Tables for Magnetic Fields of Filamentary and Distributed Circular Currents.** Philip J. Hart. Elsevier, New York, 1967. 495 pp. Illus. \$19.

**The Vitamins.** Chemistry, Physiology, Pathology, Methods. vol. 1. W. H. Sebrell, Jr., and Robert S. Harris, Eds. Academic Press, New York, ed. 2, 1967. 582 pp. Illus. \$25.

**VLF Radio Engineering.** Arthur D. Watt. Pergamon, New York, 1967. 717 pp. Illus. \$20. International Series of Monographs in Electromagnetic Waves, vol. 14.

**Vorlesungen über Differential Geometrie und Geometrische Grundlagen von Einsteins Relativitätstheorie.** Wilhelm Blaschke. Chelsea, New York, 1967. Two volumes in one. 322 and 267 pp. Illus. \$10.95. Reprint of vol. 1 (ed. 3, 1930) and vol. 2 (ed. 2, 1923).

**Wheat.** B. P. Pal. Indian Council of Agricultural Research, New Delhi, 1966. 388 pp. Illus. Rs. 18.50.

**The Wind and Beyond: Theodore von Kármán, Pioneer in Aviation and Pathfinder in Space.** Theodore von Kármán with Lee Edson. Little, Brown, Boston, 1967. 384 pp. Illus. \$10.

**The Work of the Gods in Tikopia.** Raymond Firth. Humanities Press, New York, 1967. Second edition, with new introduction and epilogue. 498 pp. Illus. \$10. London School of Economics Monographs on Social Anthropology, Nos. 1 and 2.

**Working with Psychology.** Floyd L. Ruch, Neil Warren, and David S. Gorfain. Scott, Foresman, Glenview, Ill., ed. 7, 1967. 176 pp., \$2.95; brief ed. 7, 144 pp., \$2.50. Illus. Paper. A workbook for use with *Psychology and Life*.

**World Climate from 8000 to 0 B.C.** Proceedings of an international symposium, London, April 1966. J. S. Sawyer, Ed. Royal Meteorological Soc., London, 1967. 231 pp. Illus. Paper, \$8.80.

**World Marketing: A Multinational Approach.** John K. Ryans, Jr., and James C. Baker. Wiley, New York, 1967. 403 pp. Illus. Paper, \$5.95; cloth, \$8.95. Wiley Marketing Series.

**The Young Offender.** D. J. West. International Universities Press, New York, 1967. 333 pp. \$6.50.

**Your Future in Oceanography.** Norman H. Gaber. Rosen, New York, 1967. 143 pp. Illus. \$4.