

less satisfactory. Thomson was far less sure of the validity of Carnot's theory between 1847 and 1850 than he appeared to be in print, and his objections to the mechanical theory of heat were philosophical and deep. Until they were resolved he would not publish on the mechanical theory, and he was beaten to this prize by William Rankine and Rudolf Clausius. Clausius's work is also not given its due by Steffens.

Despite these reservations this is a nice study in what it takes to be an "ingenious experimenter" and shows us that as much imagination and skill must go into the design and development of experiments as into theory.

ELIZABETH GARBER

*History Department,
State University of New York,
Stony Brook 11794*

Microbiology

Pesticide Microbiology. Microbiological Aspects of Pesticide Behaviour in the Environment. I. R. HILL and S. J. L. WRIGHT, Eds. Academic Press, New York, 1978. xx, 844 pp., illus. \$73.65.

In considering how the effects of applied xenobiotic compounds can be adapted to and regulated, priority is often given to the visible effects of xenobiotics on plants and animals. Less attention is focused on interactions of pesticides with microorganisms, although such interactions, by upsetting biological equilibrium or by forming unexpected compounds through metabolic activity, may have a more serious and permanent environmental influence.

Pesticide Microbiology is successful in summarizing the research done before 1976 on microbiological aspects of pesticide behavior in the environment. It can be considered an important reference source and will be useful for both the beginner and the expert. However, one must be rather critical about the organization of the book, since a chapter on microbial transformation of pesticides (I. R. Hill) overlaps with chapters on the microbial degradation of insecticides (F. Matsumura and H. J. Benezet), herbicides (R. E. Cripps and T. R. Roberts), and fungicides, fumigants, and nematocides (D. Woodcock).

Most of the contributions on the transformation of the various groups of pesticides are well written and provide a good perspective of such issues as the value of experimental designs and the possibility

of extrapolating laboratory experiments to field conditions. The latter issue, which is discussed from various viewpoints, is important, for the complexity of natural environments—especially of soil—has always presented numerous methodological problems to research workers investigating the in situ metabolic activities of the endogenous microflora. In spite of statements like "Microbial cultures grown in nutrient media, perfusion columns and soil suspensions do not provide data of relevance to agricultural conditions," most of the results reviewed in the book are obtained from laboratory, not field, experiments.

I. R. Hill and D. J. Arnold describe in one chapter the techniques used for the study of pesticide transformation in the environment by the pesticide manufacturing company for which they work, but very few findings of this type of research appear in the literature. Unquestionably the research that private industry does not publish causes a considerable gap in any summary of pesticidal fates in the environment.

The sections dealing with the effect of pesticides on various organisms differ greatly in their thoroughness. The chapter "Pesticides and the micro-fauna of soil and water" by C. A. Edwards contains considerably less information than the two elaborate and very carefully assembled chapters on pesticide effects on soil microorganisms by J. R. Anderson. The critical evaluation and extensive tables included in these two chapters may well be the most comprehensive in the literature.

The introductory chapters covering microbiological aspects of the soil, plant, aquatic, air, and animal environments do not provide an adequate framework for the subjects discussed in the book. In general, students, for whom the first chapters are apparently designed, can hardly afford the book, and experts will not find these chapters very informative.

There is justification for a book on pesticide microbiology, and this one provides valuable and comprehensive information on the subject. As indicated by the editors in their preface, however, interactions of microorganisms with pesticides in ecosystems are unlikely to be clearly defined or isolated from the influence of other factors controlling the fate and activity of pesticides in the environment.

JEAN-MARC BOLLAG

*Laboratory of Soil Microbiology,
Department of Agronomy,
Pennsylvania State University,
University Park 16802*

Books Received

Albert Einstein: Autobiographical Notes. A Centennial Edition. Translated and edited by Paul Arthur Schilpp. Open Court, La Salle, Ill., 1979. vi, 90 pp. \$9.95.

Algebraic Geometry. Proceedings of a symposium, Tromsø, Norway, June 1977. Loren D. Olson, Ed. Springer-Verlag, New York, 1978. vi, 244 pp., illus. Paper, \$12.50. Lecture Notes in Mathematics, vol. 687.

American Communities Tomorrow. Jack Kinton, Ed. Social Science Services and Resources, Aurora, Ill., 1978 and 1979. Vol. 1, Neighborhood Revivals and New towns. vi, 264 pp. Paper, \$11.95. Vol. 2, Leadership and Organizational Models. vi, 264 pp. Paper, \$7.95.

American Science and Technology. A Bicentennial Bibliography. George W. Black, Jr. Southern Illinois University Press, Carbondale, and Feffer and Simons, London, 1979. xiv, 170 pp. \$12.95.

Amino Acid and Protein Biosynthesis II. H. R. V. Arnstein, Ed. University Park Press, Baltimore, 1978. xii, 332 pp., illus. \$29.50. International review of Biochemistry, vol. 18.

Analysis of Laws Governing Access across Federal Lands. Options for Access in Alaska. Office of Technology Assessment, Washington, D.C., 1979 (available from the Superintendent of Documents, Washington, D.C.). xii, 260 pp., illus. Paper, \$4.50.

Analytical Chemistry. Donald J. Pietrzyk and Clyde W. Frank. Academic Press, New York, ed. 2, 1979. xx, 700 pp., illus. \$16.50.

Annual Review of Neuroscience. Vol. 2. W. Maxwell Cowan, Zach W. Hall, and Eric R. Kandel, Eds. Annual Reviews, Palo Alto, Calif., 1979. x, 556 pp., illus. \$17.

Annual Review of Physiology. Vol. 41. I. S. Edelman and Stanley G. Schultz, Eds. Annual Reviews, Palo Alto, Calif., 1979. xii, 824 pp., illus. \$17.

Application of Proteolytic Enzymes to Protein Structure Studies. Elemer Mihalyi. CRC Press, West Palm Beach, Fla., ed. 2, 1978. Two volumes. Vol. 1. xii, 328 pp., illus. \$69.95. Vol. 2. xii, 298 pp., illus. \$59.95.

Applied Biology. Vol. 3. T. H. Coaker, Ed. Academic Press, New York, 1978. x, 418 pp., illus. \$34.75.

Applied Linear Algebra. R. J. Goult, Horwood, Chichester, England, and Halsted (Wiley), New York, 1978. 196 pp. \$25. Mathematics and Its Applications.

Archaeological Studies of Mesoamerican Obsidian. Thomas R. Hester, Ed. Ballena Press, Socorro, N.M., 1978. vi, 210 pp., illus. Paper, \$9.95. Ballena Press Studies in Mesoamerican Art, Archaeology and Ethnohistory No. 3.

Arenigian and Llanvirnian Conodonts from Jämtland, Northern Sweden. Anita Löfgren. Universitetsforlaget, Oslo, 1978 (U.S. distributor, Columbia University Press, New York). 130 pp., illus. + plates. Paper, \$30. Fossils and Strata, No. 13.

The Biological Importance of Bile Salts. G. A. D. Haslewood. North-Holland, Amsterdam, 1978 (U.S. distributor, Elsevier, New York). xviii, 206 pp., illus. \$55.75. Frontiers of Biology, vol. 47.

Biology. Richard A. Goldsby. Harper and Row, New York, ed. 2, 1978. xxii, 896 pp., illus. + plates. \$17.95.

The Biology of Senescence. Alex Comfort. Elsevier, New York, ed. 3, 1979. x, 414 pp., illus. \$19.95.

Biosynthetic Products for Cancer Chemotherapy. (Continued on page 1423)

BOOKS RECEIVED

(Continued from page 1372)

- therapy.** Vol. 3. George R. Pettit and Richard H. Ode. Plenum, New York, 1979. viii, 198 pp., illus. \$32.50.
- The Blue Reef.** A Report from Beneath the Sea. The Adventures and Observations of Walter Starck, Marine Biologist and Authority on Sharks, at Enewetak Atoll, a Coral Reef in the Pacific Ocean. Alan Anderson, Jr. Knopf, New York, 1979. x, 260 pp. + plates. \$12.95. New Explorer Series.
- Burnham's Celestial Handbook.** An Observer's Guide to the Universe beyond the Solar System. Vol. 3, Pavo—Vulpecula. Robert Burnham, Jr. Dover, New York, 1978. vi + pp. 1351–2138, illus. Paper, \$8.95.
- Cabal Seminar 76–77.** A. S. Kechris and Y. N. Moschovakis, Eds. Springer-Verlag, New York, 1978. vi, 282 pp. Paper, \$14.30. Lecture Notes in Mathematics, vol. 689.
- Carbon-13 NMR Shift Assignments of Amines and Alkaloids.** Maurice Shamma and David M. Hindenlang. Plenum, New York, 1979. xii, 304 pp., illus. \$29.50.
- Chlorophyll Organization and Energy Transfer in Photosynthesis.** Papers from a symposium, London, Feb. 1978. Excerpta Medica, Amsterdam, 1979 (U.S. distributor, Elsevier, New York). xii, 374 pp., illus. \$38.25. Ciba Foundation Symposium 61 (new series).
- Clinical Immunochemistry.** Chemical and Cellular Bases and Applications in Disease. Papers from a conference, Chicago, July 1977. Samuel Natelson, Amadeo J. Pesce, and Albert A. Dietz, Eds. American Association for Clinical Chemistry, Washington, D.C., 1978. xxiv, 506 pp., illus. \$38.50. Current Topics in Clinical Chemistry, vol. 3.
- Coal.** Its Role in Tomorrow's Technology. A Sourcebook on Global Coal Resources. Charles Simeons. Pergamon, New York, 1978. xvi, 314 pp., illus. \$75.
- Collected Papers on Wave Mechanics.** E. Schrödinger. Translated from the German edition (Leipzig, 1928). Chelsea, New York, ed. 2, 1978. xiv, 148 pp. \$9.95.
- College Algebra.** Mustafa A. Munem, William Tschirhart, and James P. Yizze. Worth, New York, ed. 2, 1979. xii, 416 pp., illus. \$14.95.
- A Combinatorial Introduction to Topology.** Michael Henle. Freeman, San Francisco, 1979. xvi, 310 pp., illus. \$18.50. A Series of Books in Mathematical Sciences.
- Combinatorial Mathematics.** Proceedings of a conference, Canberra, Australia, Aug. 1977. D. A. Holton and Jennifer Seberry, Eds. Springer-Verlag, New York, and Australian Academy of Science, Canberra, 1978. x, 354 pp., illus. Paper, \$17.80. Lecture Notes in Mathematics, vol. 686.
- Communication and Control in Society.** Papers from a conference, Philadelphia. Klaus Krippendorff, Ed. Gordon and Breach, New York, 1979. xiv, 530 pp., illus. \$43.
- Drug Design.** Vol. 8. E. J. Ariens, Ed. Academic Press, New York, 1979. xx, 420 pp., illus. \$42. Medicinal Chemistry, vol. 11.
- Elementary Probability Theory with Stochastic Processes.** Kai Lai Chung. Springer-Verlag, New York, ed. 3, 1979. xvi, 328 pp., illus. \$14.80. Undergraduate Texts in Mathematics.
- The Endocrine Function of the Human Adrenal Cortex.** Proceedings of a symposium, Florence, Oct. 1977. V. H. T. James, M. Serio, G. Giusti, and L. Martini, Eds. Academic Press, New York, 1978. x, 628 pp., illus. \$40.35. Proceedings of the Sero Symposium, vol. 18.
- Energy and the Community.** Papers from a colloquium, Chapel Hill, 1977. Raymond J. Burby, III, and A. Fleming Bell, Eds. Ballinger (Harper and Row), Cambridge, Mass., 1978. xx, 140 pp. \$17.50.
- Energy Engineering Technology.** Proceedings of a congress, Atlanta, Ga., Oct. 1978. Fairmont Press, Atlanta, 1979. iv, 242 pp., illus. Paper, \$45.
- Environment and Behavior.** A Dynamic Perspective. Charles J. Holahan. Plenum, New York, 1978. xviii, 188 pp. \$14.95. The Plenum Social Ecology Series.
- Environmental Design Evaluation.** Arnold Friedmann, Craig Zimring, and Ervin Zube. Plenum, New York, 1978. viii, 226 pp., illus. \$22.50.
- Environmental Quality.** The Ninth Annual Report of the Council on Environmental Quality. Council on Environmental Quality, Washington, D.C., 1978 (available from the Superintendent of Documents, Washington, D.C.). xlii, 600 pp., illus. Paper, \$5.
- Freud's Early Psychology of the Neuroses.** A Historical Perspective. Kenneth Levin. University of Pittsburgh Press, Pittsburgh, 1978. x, 314 pp. \$12.95.
- From Genesis to Genocide.** The Meaning of Human Nature and the Power of Behavior Control. Stephan L. Chorover. MIT Press, Cambridge, Mass., 1979. xiv, 238 pp. \$15.
- Function Theory on Manifolds Which Possess a Pole.** R. E. Greene and H. Wu. Springer-Verlag, New York, 1979. iv, 216 pp. Paper, \$12.50. Lecture Notes in Mathematics, vol. 699.
- Functional Analysis Methods in Numerical Analysis.** Proceedings of a meeting, St. Louis, 1977. M. Zuhair Nashed, Ed. Springer-Verlag, New York, 1979. viii, 336 pp. Paper, \$16. Lecture Notes in Mathematics, vol. 701.
- Functional Histology.** A Core Text. Myrin Borysenko, Joan Borysenko, Theodore Beringer, and Alvar Gustafson. Little, Brown, Boston, 1979. xii, 252 pp., illus. Cloth, \$17.50; paper, \$12.50.
- Functional Neuroscience.** Michael S. Gazzaniga, Diana Steen, and Bruce T. Volpe. Harper and Row, New York, 1979. xii, 402 pp., illus. \$15.95.
- Fundamental Problems in Statistical Mechanics IV.** Proceedings of a school, Jadwisin, Poland, Sept. 1977. E. G. D. Cohen, W. Fiszdon, and A. Palczewski, Eds. Polish Academy of Sciences, Warsaw, 1978. 542 pp., illus. Z1 130.
- Handbook on the Physics and Chemistry of Rare Earths.** Vol. 1, Metals. Karl A. Gschneidner, Jr., and Le Roy Eyring, Eds. North-Holland, Amsterdam, 1978 (U.S. distributor, Elsevier, New York). xxvi, 894 pp., illus. \$133.25.
- Head Injuries: Tumors of the Cerebellar Region.** Papers from a conference, Cologne, Sept. 1977. R. A. Frowein, O. Wilcke, A. Karimi-Nejad, M. Brock, and M. Klinger, Eds. Springer-Verlag, New York, 1978. xxii, 398 pp., illus. Paper, \$47.30. Advances in Neurosurgery 5.
- Hepatitis Viruses.** Proceedings of a symposium, Tokyo, Nov. 1976. Toshitsugu Oda, Ed. University Park Press, Baltimore, 1978. xii, 346 pp., illus. \$22.50. Japan Medical Research Foundation Publication No. 6.
- High Performance Liquid Chromatography.** Chemical Laboratory Practice. Translated from the German (Berlin, 1977) by George Gutnikov. Springer-Verlag, New York, 1979. xii, 250 pp., illus. \$29.80.
- Hilbert Space Operators.** Proceedings of a conference, Long Beach, Calif., June 1977. J. M. Bachar, Jr., and D. W. Hadwin, Eds. Springer-Verlag, New York, 1978. viii, 184 pp., illus. Paper, \$9.80. Lecture Notes in Mathematics, vol. 693.
- Human Activity and Time Geography.** Tommy Carlstein, Don Parkes, and Nigel Thrift, Eds. Halsted (Wiley), New York, 1979. x, 286 pp., illus. \$37.50. Timing Space and Spacing Time, vol. 2.
- The Human Central Nervous System.** A Synopsis and Atlas. R. Nieuwenhuys, J. Voogd, and Chr. van Huijzen. Springer-Verlag, New York, 1978. vi, 254 pp. Paper, \$26.40.
- Human Genetic Variation in Response to Medical and Environmental Agents.** Pharmacogenetics and Ecogenetics. Papers from a conference, Titisee, Germany, Oct. 1977. F. Vogel, W. Buselmaier, W. Reichert, G. Kellermann, and P. Berg, Eds. Springer-Verlag, New York, 1978. vi, 194 pp., illus. Paper, \$20.90. *Human Genetics*, Supplement 1.
- The Identification of Flowering Plant Families.** Including a Key to Those Native and Cultivated in North Temperate Regions. P. H. Davis and J. Cullen. Cambridge University Press, New York, ed. 2, 1979. x, 114 pp. Cloth, \$14.95; paper, \$3.95.
- Immunocytochemistry.** Ludwig A. Sternberger. Wiley, New York, ed. 2, 1979. xiv, 354 pp., illus. \$27.50. Basic and Clinical Immunology.
- The Irritable Gut.** Functional Disorders of the Alimentary Canal. W. Grant Thompson. University Park Press, Baltimore, 1979. xii, 276 pp., illus. \$19.50.
- Jane C., symbolisches Denken in Bildern und Sprache.** Das Werk eines Mädchens mit Down-Syndrom in Le Fil d'Ariane. Max Kläger. Ernst Reinhardt Verlag, Munich, 1978. 168 pp., illus. Paper, DM 28. Beiträge zur Kinderpsychotherapie, Band 28.
- Job Sharing.** A New Pattern for Quality of Work and Life. Gretl S. Meier. Upjohn Institute for Employment Research, Kalamazoo, Mich., 1979. xx, 188 pp. Paper, \$4.50.
- Keys to the Families and Genera of Queensland Flowering Plants (Magnoliophyta).** H. T. Clifford and Gwen Ludlow. University of Queensland Press, St. Lucia, ed. 2, 1978 (U.S. distributor, Technical Impex Corp., Lawrence, Mass.). xiv, 202 pp., illus. Paper, \$16.95.
- Laboratory Engineering and Manipulations.** Edmond S. Perry and Arnold Weissberger, Eds. Wiley-Interscience, New York, ed. 3, 1979. xii, 532 pp., illus. \$40. Techniques of Chemistry, vol. 13.
- Laser Beam Propagation in the Atmosphere.** J. W. Strohbehn, Ed. Springer-Verlag, New York, 1978. xiv, 328 pp., illus. \$50.60. Topics in Applied Physics, vol. 25.
- The Law and Policy of Toxic Substances Control.** A Case Study of Vinyl Chloride. David D. Doniger. Published for Resources for the Future by Johns Hopkins University Press, Baltimore, 1978. xii, 180 pp. cloth, \$12.50; paper, \$4.95. Reprinted from *Ecology Law Quarterly*, vol. 7, No. 2.
- Lead Based Paint Poisoning Research.** Review and Evaluation 1971–1977. Irwin H. Bिलlick and V. Eugene Gray. U.S. Department of Housing and Urban Development, Washington, D.C., 1978 (available from the Superintendent of Documents, Washington, D.C.).

viii, 92 pp., illus. + appendixes. Paper, \$3.75.

Lexique Anglais—Français. Termes Techniques à l'Usage des Biologistes. J. Vaillancourt. Editions de l'Université d'Ottawa, Ottawa, Canada, 1978. x, 428 pp. Paper, \$12.

The Men All Singing. The Story of Menhaden Fishing. John Frye. Donning, Virginia Beach, Va., 1978. viii, 242 pp., illus. \$14.95.

Mental Workload. Its Theory and Measurement. Proceedings of a symposium, Mati, Greece, Aug. 1977. Neville Moray, Ed. Plenum, New York, 1979. xii, 500 pp., illus. \$37.50. NATO Conference Series III, vol. 8.

Metal Alkoxides. D. C. Bradley, R. C. Mehrotra, and D. P. Gaur. Academic Press, New York, 1978. viii, 412 pp., illus. \$58.

Metal β -Diketones and Allied Derivatives. R. C. Mehrotra, R. Bohra, and D. P. Gaur. Academic Press, New York, 1978. viii, 382 pp., illus. \$42.40.

Methods for Carcinogenesis Tests at the Cellular Level and Their Evaluation for the Assessment of Occupational Cancer Hazards. Proceedings of a meeting, Milan, Dec. 1977. Carlo Erba Foundation, Milan, 1978. 190 pp., illus. Paper.

Methods of Hormone Radioimmunoassay. Bernard M. Jaffe and Harold R. Behrman, Eds. Academic Press, New York, ed. 2, 1979. 1040 pp., illus. \$59.50.

Microscopic Optical Potentials. Proceedings of a workshop, Hamburg, Germany, Sept. 1978. H. V. von Geramb, Ed. Springer-Verlag, New York, 1979. xii, 482 pp., illus. Paper, \$21.30. Lecture Notes in Physics, vol. 39.

Mode of Action of Autonomic Drugs. Budh D. Bhagat. Graceway Publishing Company, Flushing, N.Y., 1979. vi, 170 pp., illus. Cloth, \$21.50; paper, \$17.50.

Modern Oscilloscope Handbook. Douglas Bapton. Reston (Prentice-Hall), Reston, Va., 1979. viii, 216 pp., illus. \$16.95.

Molecular Spectra and Molecular Structure. Vol. 4, Constants of Diatomic Molecules. K. P. Huber and G. Herzberg. Van Nostrand Reinhold, New York, 1979. xvi, 716 pp. \$27.50.

Molecular Structure and Bonding. The Qualitative Molecular Orbital Approach. Benjamin M. Gimarc. Academic Press, New York, 1979. x, 224 pp., illus. \$18.

Monitoring Toxic Substances. Papers from a symposium, Chicago, Aug. 1977. Dennis Schuetzle, Ed. American Chemical Society, Washington, D.C., 1979. xii, 290 pp., illus. \$26.50. ACS Symposium Series, 94.

Mononuclear Phagocytes in the Central Nervous System. Origin, Mode of Distribution, and Function of Progressive Microglia, Perivascular Cells of Intracerebral Vessels, Free Subarachnoidal Cells, and Epileptus Cells. M. Oehmichen. Translated from the German by Margaret M. Clarkson. Springer-Verlag, New York, 1978. x, 176 pp., illus. \$37.40. Neurology Series, 21.

The Mormon Experience. A History of the Latter-Day Saints. Leonard J. Arrington and Davis Bitton. Knopf, New York, 1979. xx, 406 pp. + plates. \$15.

Multidisciplinary Research Related to the Atmospheric Sciences. Papers from a workshop, Boulder, Colo., June 1977. Michael H. Glantz, Harry van Loon, and Elmer Armstrong, Eds. National Center for Atmospheric Research, Boulder, Colo., 1978. iv, 326 pp. Paper. NCAR/2141-78/1.

Mysterious Universe. A Handbook of Astronomical Anomalies. William R. Corliss, Ed. Illustrated by John C. Holden. Sourcebook Project, Glen Arm, Md., 1979. vi, 710 pp. \$15.95.

The Myth of Science or the Fantasy of Truth. Frederick R. Schram. Vantage Press, New York, 1979. x, 86 pp. \$6.95.

Nasopharyngeal Carcinoma. Etiology and Control. Proceedings of a symposium, Kyoto, Japan, Apr. 1977. G. de-Thé, Y. Ito, and W. Davis, Eds. International Agency for Research on Cancer, Lyon, 1978 (U.S. distributor, WHO Publications Centre USA, Albany, N.Y.). xviii, 610 pp., illus. \$60. IARC Scientific Publications No. 20.

La Natte et le Manguier. Ariane Deluz, Colette Le Cour Grandmaison, and Anne Retel-Laurentin. Mercure de France, Paris, 1978. viii, 248 pp. Paper, 45 F. Collection "En Direct."

Orthopaedic Mechanics. Procedures and Devices. D. N. Ghista and R. Roaf, Eds. Academic Press, New York, 1978. xii, 348 pp., illus. \$36.00.

Oxygen in the Metal and Gaseous Fuel Industries. Papers from a conference, Leeds, England, Sept. 1977. Chemical Society, London, 1978. xii, 274 pp., illus. Paper, \$14.50. Special Publication No. 32.

A Participative Approach to Computer Systems Design. A Case Study of the Introduction of a New Computer System. Enid Mumford and Don Henshall. Halsted (Wiley), New York, 1978. x, 192 pp., illus. \$18.95.

Pathobiology Annual. Vol. 8, 1978. Harry L. Joachim, Ed. Raven, New York, 1978. xii, 430 pp., illus. \$36.

Perception, Theory and Commitment. The New Philosophy of Science. Harold I. Brown. University of Chicago Press, Chicago, 1979. 204 pp. Paper, \$4.95. Reprint of the 1977 edition.

Personal Computers. What They Are and How to Use Them. Byron Wels. Prentice-Hall, Englewood Cliffs, N.J., 1979. xiv, 194 pp., illus. Cloth, \$12.95; paper, \$5.95. A Trafalgar House Book.

Pest Management. Proceedings of a conference, Laxenburg, Austria, Oct. 1976. G. A. Norton and C. S. Holling, Eds. Pergamon, New York, 1979. viii, 350 pp., illus. \$40. IIASA Proceedings Series, vol. 4.

Pesticide Microbiology. Microbiological Aspects of Pesticide Behaviour in the Environment. I. R. Hill and S. J. L. Wright, Eds. Academic Press, New York, 1978. xx, 844 pp., illus. \$73.65.

Physical Geology. Bob F. Mallory and David N. Cargo. McGraw-Hill, New York, 1979. xviii, 538 pp., illus. \$16.95.

The Physiological Ecology of Tunas. Proceedings of a workshop, La Jolla, Calif., Jan. 1977. Gary D. Sharp and Andrew E. Dizon, Eds. Academic Press, New York, 1978. xxvi, 486 pp., illus. \$29.50.

Les Prix Nobel 1977. Nobel Prizes, Presentations, Biographies and Lectures. Almqvist & Wiksell, Stockholm, 1979 (U.S. distributor, Humanities Press, Atlantic Highlands, N.J.). 346 pp., illus. \$39.25.

Probability in Medicine. Edmond A. Murphy. Johns Hopkins University Press, Baltimore, 1979. xiv, 306 pp., illus. \$19.95.

Problem Solving and Comprehension. A Short Course in Analytic Reasoning. Arthur Whimbey and Jack Lochhead. Franklin Institute Press, Philadelphia, 1979. vi, 258 pp. Paper, \$8.50.

Proceedings of the First International Congress on Toxicology. Toxicology as a Predictive Science. Toronto, Mar. 1977. Gabriel L. Plaa and W. A. M. Duncan, Eds. Academic Press, New York, 1978. xvi, 670 pp., illus. \$32.

Proceedings of the International Symposium

on Atomic, Molecular, and Solid-State Theory, Collision Phenomena, and Computational Methods. Flagler Beach, Florida, Mar. 1978. Per-Olov Löwdin and Yngve Öhrn, Eds. Interscience (Wiley), New York, 1978. xvi, 550 pp., illus. Paper, \$30. *International Journal of Quantum Chemistry*: Quantum Chemistry Symposium No. 12.

Proceedings of the International Symposium on Quantum Biology and Quantum Pharmacology. Flagler Beach, Fla., Mar. 1978. Per-Olov Löwdin and John R. Sabin, Eds. Interscience (Wiley), New York, 1978. xiv, 472 pp., illus. Paper, \$30. *International Journal of Quantum Chemistry*: Quantum Biology Symposium No. 5.

Progress in Communication Sciences. Vol. 1, Melvin J. Voigt and Gerhard J. Hanneman, Eds. Ablex Publishing Corporation, Norwood, N.J., 1979. x, 198 pp. \$17.50.

Progress in Cybernetics and Systems Research. Vol. 5, Organization and Management, Organic Problem-solving in Management, System Approach in Urban and Regional Planning, Computer Performance, Control and Evaluation, Computer Linguistics. Papers from a meeting, 1976. Robert Trappl, F. de P. Hanika, and Franz R. Pichler, Eds. Hemisphere, Washington, D.C., and Halsted (Wiley), New York, 1979. xvi, 684 pp., illus. \$50.

Rhythmic Activity of Fishes. Papers from a symposium, Stirling, Scotland, July 1977. J. E. Thorpe, Ed. Academic Press, New York, 1978. x, 312 pp., illus. \$23.75.

Rice in Africa. Proceedings of a conference, Ibadan, Nigeria, Mar. 1977. I. W. Buddenhagen and G. J. Persley, Eds. Academic Press, New York, 1978. xvi, 356 pp., illus. \$25.75.

Schizophrenia. Towards a New Synthesis. J. K. King, Ed. Grune and Stratton, New York, 1978. xii, 292 pp. \$16.50.

The Schizophrenic Disorders. Long-term Patient and Family Studies. Manfred Bleuler. Translated from the German edition (Stuttgart, 1972) by Siegfried M. Clemens. Yale University Press, New Haven, Conn., 1978. xxiv, 530 pp., illus. \$45.

Science in a Free Society. Paul Feyerabend. NLB, Manchester, England, 1978 (U.S. distributor, Schocken Books, New York). 222 pp. \$15.50.

Science and Religion. Swami Rung-anathananda. Advaita Ashrama, Calcutta, 1978 (U.S. distributor, Vedanta Press, Hollywood, Calif.). xii, 224 pp. + index. Paper, \$2.95.

Science Textbook Controversies and the Politics of Equal Time. Dorothy Nelkin. MIT Press, Cambridge, Mass., 1978. xii, 174 pp. Paper, \$4.95. Reprint of the 1977 edition.

Sea Microbes. John McNeill Sieburth. Oxford University Press, New York, 1979. xii, 492 pp., illus. \$49.95.

Second International Congress on Child Abuse and Neglect. Abstracts. London, Sept. 1978. Alfred White Franklin, Ed. Pergamon, New York, 1979. iv, 290 pp. Paper, \$20.

Sensation and Perception. Stanley Coren, Clare Porac, and Lawrence M. Ward. Academic Press, New York, 1979. xii, 440 pp., illus., + appendixes. \$14.95.

Sensory Experience. Raymond J. Christman. Harper and Row, New York, ed. 2, 1979. x, 438 pp., illus. \$15.95.

A Treatise on Dinitrogen Fixation. Sections 1 and 2, Inorganic and Physical Chemistry and Biochemistry. R. W. F. Hardy, Frank Bottomley, and R. C. Burns, Eds. Wiley-Interscience, New York, 1979. xvi, 812 pp., illus. \$47.50.