

ering the Cordilleran and Appalachian cratonic margins within the United States, sets the scene by identifying three irregularly concentric facies belts: an inner detrital belt of quartz sandstones derived from the cratonic interior (largely from the Canadian Shield), a carbonate belt of shifting Bahama-like banks, and an outer detrital belt representing silt and clay bypassed to deeper and less agitated bottoms seaward of the banks (perhaps on the continental slope and rise). Forthcoming volumes on younger systems will have to cope with the structural, igneous, metamorphic, and stratigraphic complexities of mobile belts active at continent-ocean interfaces. Mercifully, such "eugeosynclinal" problems are largely unrecognized in the Cambrian record, in part because of pervasive overprint of younger events and in part because stratigraphers tend to correlate unfossiliferous chert-turbidite successions with similar rocks bearing Ordovician graptolites. An exception to the rule of continental margin obscurity, masterfully treated by F. K. North, is found in the Maritime Provinces. South America, in common with many Gondwana areas, has a minimal Cambrian cratonic-interior record; preservation is largely confined to the western border of the carbonate belt and its passage into the outer detrital belt in the Cordillera Oriental. The widespread Cambrian lacuna makes it possible for A. V. Borrello to present an adequate summary of current knowledge of the system in South America in a fraction of the space required for North American coverage.

It is obvious that Holland has not employed a heavy editorial hand in coordinating matters of concept or style. In coverage of the United States, Palmer relies primarily on verbal descriptions of discrete areas (one could wish for greater resort to tabulation of descriptive matter) whereas Lochman-Balk uses a wealth of graphics to describe and interpret the cratonic interior (and a breezy, Runyonesque present tense for ancient events). The two authors agree on the systematic cyclicity of Cambrian sedimentation but invoke eustatics rather than tectonism as the controlling factor. North covers an immense area of Canada and achieves a fine balance of useful detail and interpretation. He sees significant evidence of cratonic and craton-border tectonism and igneous activity; reconsideration of Cambrian stability in the United States seems indicated. J. W.

Cowie, writing on the Canadian Arctic and Greenland in advance of the acquisition and release of a large volume of critical data, is able to show that the northern continental border fits moderately well into the model developed in lower latitudes. Major enigmas, such as are posed by the East Greenland fold belt, continue to await resolution, but, as throughout this volume, readers can gain a nearly current overview of the state of knowledge along with some fascinating nuggets of speculation.

L. L. SLOSS

*Department of Geological Sciences,
Northwestern University,
Evanston, Illinois*

Organometallic Catalysts

The Organic Chemistry of Palladium. PETER M. MAITLIS. 2 vols. Vol. 1, Metal Complexes. xvi, 320 pp., illus. \$19. Vol. 2, Catalytic Reactions. xvi, 216 pp., illus. \$16. Academic Press, New York, 1971. Organometallic Chemistry.

The catalysis of organic chemical reactions by derivatives of transition metals is a subject of enormous practical importance: these catalysts provide the basis for the processes used in the large-scale commercial synthesis of many basic chemicals. They are, however, less widely used in small-scale organic synthesis, in major part because their successful application requires a feeling for the characteristics peculiar to each metal ion and a working familiarity with a voluminous and poorly organized patent literature, neither of which is common among synthetic chemists. These volumes review the catalytic properties of palladium, one of the presently and potentially most useful of the transition metals.

The first volume is a very successful discussion of the structural characteristics and reactivity of complexes of palladium. It contains enough introductory and elementary material that it should be easily comprehensible to anyone with a moderate knowledge of organic chemistry. At the same time the topics discussed are sufficiently generally pertinent to the organometallic chemistry of the late transition metals that this volume could serve as a self-contained introductory textbook to this type of chemistry. The second volume is concerned with reactions in which derivatives of palladium act as catalysts. It is organized usefully by reaction types (for example, reactions

involving formation and cleavage of bonds between carbon and carbon, oxygen, hydrogen, and heteroatoms), and its coverage of the literature is sufficiently thorough that it should make the great number of synthetic methods based on palladium accessible to synthetic chemists with no particular expertise in organometallic catalysis. The discussions of reaction mechanisms included in this volume are a trifle credulous and sometimes fragmented, but the important descriptive chemistry is readily available. Both books contain instructive comparisons between the characteristics of palladium and those of the isoelectronic (and also catalytically active) derivatives of platinum and nickel.

These volumes provide the best available discussion of the catalytic properties and organometallic chemistry of palladium. They should be of use both as reference collections to chemists interested in applying organometallic catalysis in organic synthesis and as a thorough and readable introduction to the chemical principles underlying an important and representative kind of catalysis.

GEORGE M. WHITESIDES

*Department of Chemistry,
Massachusetts Institute of Technology,
Cambridge*

Books Received

Advances in Applied Microbiology. Vol. 14. D. Perlman, Ed. Academic Press, New York, 1971. xiv, 414 pp., illus. \$21.50.

Advances in Atomic and Molecular Physics. Vol. 7. D. R. Bates and Immanuel Esterman, Eds. Academic Press, New York, 1971. xvi, 406 pp., illus. \$22.

Advances in Carbohydrate Chemistry and Biochemistry. Vol. 26. R. Stuart Tipson and Derek Horton, Eds. Academic Press, New York, 1971. xii, 550 pp., illus. \$26.

Advances in Clinical Chemistry. Vol. 14. Oscar Bodansky and A. L. Latner, Eds. Academic Press, New York, 1971. xii, 500 pp., illus. \$22.50.

Advances in Heterocyclic Chemistry. Vol. 13. A. R. Katritzky and A. J. Boulton, Eds. Academic Press, New York, 1971. xii, 440 pp., illus. \$22.50.

Advances in High Temperature Chemistry. Vol. 3. Leroy Eyring, Ed. Academic Press, New York, 1971. xiv, 286 pp., illus. \$17.50.

Advances in Immunology. Vol. 14. F. J. Dixon and Henry G. Kunkel, Eds. Academic Press, New York, 1971. xx, 378 pp., illus. \$18.50.

Advances in Magnetic Resonance. Vol. 5. John S. Waugh, Ed. Academic Press,

(Continued on page 1396)

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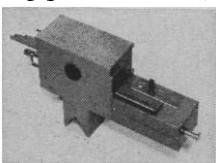
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BOOKS RECEIVED

(Continued from page 1354)

New York, 1971. xiv, 368 pp., illus. \$18.50.

Advances in Marine Biology. Vol. 9. Frederick S. Russell and Maurice Yonge, Eds. Academic Press, New York, 1971. xiv, 568 pp., illus. \$24.

The Almanac of American Politics. The Senators, the Representatives—Their Records, States and Districts. 1972. Michael Barone, Grant Ujifusa, and Douglas Matthews. Gambit, Boston, 1972. xxvi, 1030 pp., illus. Cloth, \$12.95; paper, \$4.95.

The Amazing Laser. Ben Bova. Westminster Press, Philadelphia, 1971. 122 pp., illus. Cloth, \$4.95; paper, \$2.95. A Franklin Institute Book.

The American Way of Violence. Alphonso Pinkney. Random House, New York, 1972. xvi, 236 pp. Cloth, \$7.95; paper, \$1.95.

Animal Physiology. Principles and Adaptations. Malcolm S. Gordon in collaboration with George A. Bartholomew, Alan D. Grinnell, C. Barker Jorgensen, and Fred N. White. Macmillan, New York, ed. 2, 1972. xvi, 592 pp., illus. \$13.75.

Annotated Bibliography of Marihuana (Cannabis sativa L.). 1964-1970. Coy W. Waller and Jacqueline J. Denny. University of Mississippi Research Institute of Pharmaceutical Sciences, University, 1971. viii, 302 pp., illus. Spiral Bound, \$7.

The Archives of The Royal Institution of Great Britain in Facsimile. Minutes of Managers' Meetings, 1799-1900, vols. 1-2. Frank Greenaway, Ed. Published in association with the Royal Institution of Great Britain by Scolar Press, Ilkley, England, 1971. x, 262 pp. + index. \$16.66; 15-vol. set, \$500.

Atlas of Descriptive Embryology. Willis W. Mathews. Macmillan, New York, 1972. x, 140 pp., illus. Paper \$4.95.

Auerbach on Optical Character Recognition. Auerbach, Princeton, N.J., 1971. x, 148 pp., illus. \$12.50. Auerbach on series.

The Biology of the Cell Cycle. J. M. Mitchison. Cambridge University Press, New York, 1972. vi, 314 pp., illus. Cloth, \$14.50; paper, \$4.95.

Biophysics and Physiology of Excitable Membranes. William J. Adelman, Jr., Ed. Van Nostrand Reinhold, New York, 1971. xvi, 516 pp., illus. \$24.50.

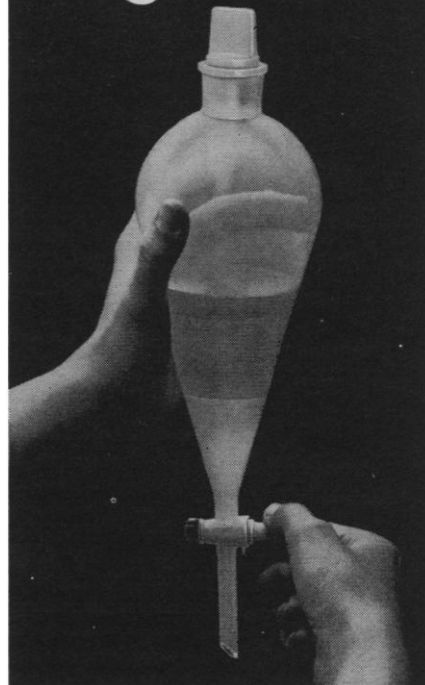
Boundary Behavior of Holomorphic Functions of Several Complex Variables. E. M. Stein. Princeton University Press, Princeton, N.J.; University of Tokyo Press, Tokyo, 1972. xii, 72 pp. Paper, \$2.75. Mathematical Notes.

Cellular Mechanisms for Calcium Transfer and Homeostasis. A conference, Portsmouth, N.H., Sept. 1970. George Nichols, Jr., and R. H. Wasserman, Eds. Academic Press, New York, 1971. xlii, 514 pp., illus. \$12.50.

The Chemistry of Synthetic Dyes. Vol. 5. K. Venkataraman, Ed. Academic Press, New York, 1971. xx, 706 pp., illus. \$36.

Computer Control Guidelines. Guidelines on the Minimum Standards of Internal Control Which Should be Maintained by Organizations Using a Computer.

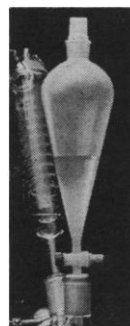
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Canadian Institute of Chartered Accountants Study Group on Computer Control and Audit Guidelines, Toronto, 1970 (U.S. distributor, Auerbach, Princeton, N.J.), viii, 136 pp., illus. Paper, \$10.

Computer Logic. Alan Rose. Wiley-Interscience, New York, 1971. xii, 180 pp., illus. \$11.95.

Computer Programming in Quantitative Biology. R. G. Davies. Academic Press, New York, 1971. xii, 492 pp., illus. \$24.

The Computer Revolution. Nigel Hawkes. Dutton, New York, 1972. 216 pp., illus. \$7.95. World of Science Library.

Computer Studies on the Spatio-Temporal Organization of Brain Waves on the Scalp. Juan de Dios Pozo-Olano. Translated from the Spanish edition (Athens, Ga., 1968). University of Georgia, Athens, 1969. 98 pp., illus. Paper.

Concepts of Communication. Interpersonal, Intrapersonal, and Mathematical. Edwin F. Beckenbach and Charles B. Tompkins, Eds. Wiley, New York, 1971. xvi, 446 pp., illus. \$19.95. University of California Engineering and Physical Sciences Extension Series.

Contemporary Experimental Psychology. In Flagrate Delicto. Joseph Germana. Brooks/Cole, Belmont, Calif., 1971. xii, 116 pp., illus. Paper, \$2.50.

Contributions to Nonlinear Functional Analysis. A symposium, Madison, Wis., Apr. 1971. Eduardo H. Zarantonello, Ed. Academic Press, New York, 1971. xiv, 672 pp., illus. \$19.50.

Cooperation and Competition. Readings on Mixed-Motive Games. Lawrence S. Wrightsman, Jr., John O'Connor, and Norma J. Baker, Eds. Brooks/Cole, Belmont, Calif., 1972. x, 348 pp., illus. Paper, \$6.95.

Counter-Free Automata. Robert McNaughton and Seymour Papert. M.I.T. Press, Cambridge, Mass., 1971. xx, 164 pp., illus. \$12.50. M.I.T. Research Monograph No. 65.

Digital Storage Systems. W. Renwick and A. J. Cole. Chapman and Hall, London, ed. 2, 1971 (U.S. distributor, Harper and Row, New York). x, 310 pp., illus. \$12.75.

Diving for Sunken Treasure. Jacques-Yves Cousteau and Philippe Diol . Translated from the French by J. F. Bernard. Doubleday, Garden City, N.Y., 1971. 302 pp., illus. \$8.95. The Undersea Discoveries of Jacques-Yves Cousteau.

Domestic Animals of China. H. Epstein. Africana, New York, 1971. xviii, 166 pp. + plates. \$19.50.

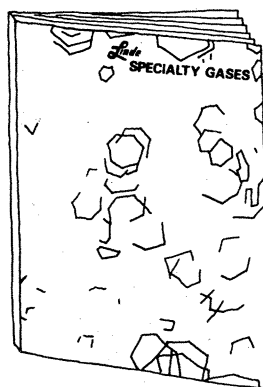
Economic Development and Population Growth in the Middle East. Charles A. Cooper and Sidney S. Alexander, Eds. Elsevier, New York, 1972. xviii, 620 pp., illus. \$19.95. The Middle East: Economic and Political Problems and Prospects.

Ecosystem Structure and Function. A colloquium, Corvallis, Ore., Apr. 1970. John A. Wiens, Ed. Oregon State University Press, Corvallis, 1972. 176 pp., illus. \$5.

Effective Graphic Communication. Norbert Lloyd Enrick. Auerbach, Princeton, N.J., 1972. viii, 184 pp., illus. Paper, \$9.95.

Elementary Physiology and Anatomy. A Laboratory Guide. Robert E. Haupt,

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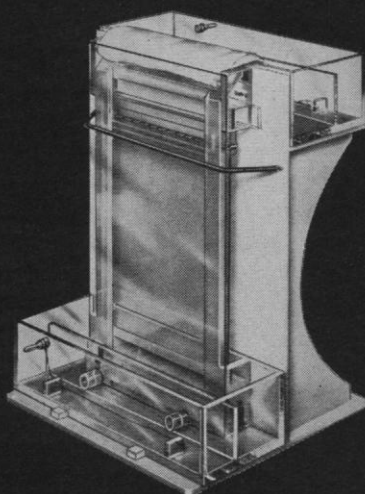
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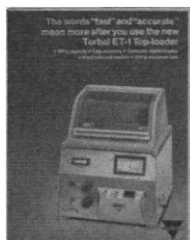
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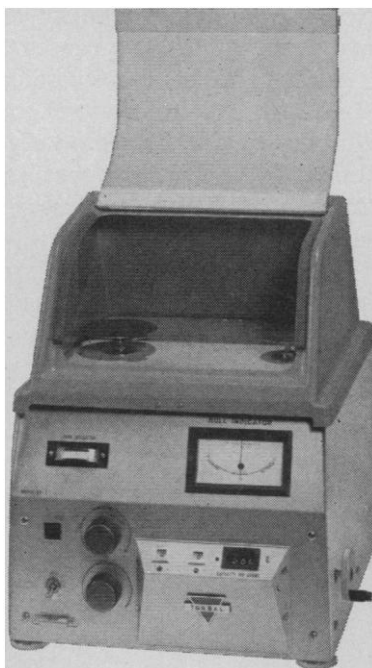
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Delma E. Harding, Oscar E. Tauber, and Adela S. Elwell. Macmillan, New York, ed. 3, 1972. x, 262 pp., illus. Paper, \$5.25.

Energy and Power. A *Scientific American* Book. Freeman, San Francisco, 1971. viii, 144 pp., illus. Cloth, \$6.50; paper, \$3.25.

Engineering Solids under Pressure. A conference, Aviemore, Scotland, May 1970. H. Ll. D. Pugh, Ed. Institution of Mechanical Engineers, London, 1971. x, 192 pp., illus. £8.

The Enjoyment of Management. Frederick C. Dyer and John M. Dyer. Dow Jones-Irwin, Homewood, Ill., 1971. xii, 188 pp., illus. \$7.95.

Environment, Man, Survival. Grand Canyon Symposium, 1970. L. H. Wullstein, I. B. McNulty, L. Klikoff, Eds. University of Utah Department of Biology, Salt Lake City, 1971. xvi, 112 pp., illus. Paper, \$3.

Environmental Quality. Now or Never. An institute, East Lansing, Mich., June 1970. Charles L. San Clemente, Ed. Michigan State University Continuing Education Service, East Lansing, 1972. xvi, 320 pp., illus. Paper, \$4.

Eskimos. Kaj Birket-Smith. Crown, New York, 1971. 278 pp. + plates. \$17.95.

Exercises in Organic and Biological Chemistry. Stuart J. Baum and William R. Bowen. Macmillan, New York, 1972. xii, 228 pp., illus. Paper, \$5.25.

Feedback Mechanisms in the Historical Collections of the National Museum of History and Technology. Otto Mayr. Smithsonian Institution Press, Washington, D.C., 1971 (available from the Superintendent of Documents, Washington, D.C.). x, 134 pp., illus. \$3.25. Smithsonian Studies in History and Technology, No. 12.

Fish Physiology. Vol. 6, Environmental Relations and Behavior. W. S. Hoar and D. J. Randall, Eds. Academic Press, New York, 1971. xvi, 560 pp., illus. \$30.

Food, Fiber and the Arid Lands. William G. McGinnies, Bram J. Goldman, and Patricia Paylore, Eds. University of Arizona Press, Tucson, 1971. x, 438 pp., illus. \$24.

The Forest Service. Michael Frome. Praeger, New York, 1971. xiv, 242 pp. + plates. \$8.75. Praeger Library of U.S. Government Departments and Agencies, No. 30.

Fortran for Engineering Physics. Mechanics, Data Analysis, and Heat. Alan B. Grossberg. McGraw-Hill, New York, 1971. x, 212 pp., illus. Paper, \$4.50.

Functional Morphology and Classification of Teleostean Fishes. William A. Gosline. University of Hawaii Press, Honolulu, 1971. x, 208 pp., illus. Paper, \$5.

Fundamentals of the Fungi. Elizabeth Moore-Landecker. Prentice-Hall, Englewood Cliffs, N.J., 1972. xiv, 482 pp., illus. \$16. Prentice-Hall Biological Science Series.

General Mathematics for College Students. Francis J. Mueller. Prentice-Hall, Englewood Cliffs, N.J., 1972. x, 194 pp., illus. Paper, \$5.

The Genesis of Quantum Theory (1899-1913). Armin Hermann. Translated from the German edition (Mosbach/Baden) by Claude W. Nash. M.I.T. Press, Cambridge, Mass. 1971. x, 166 pp. \$8.95.

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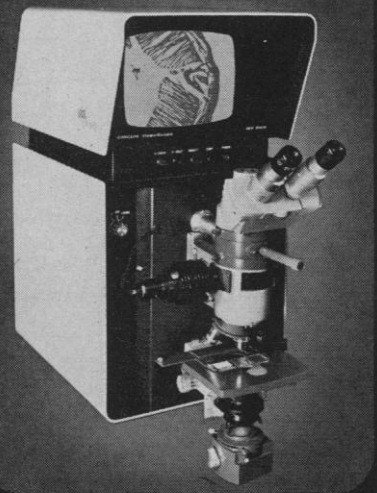
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The God of Science. Personal Interviews with 38 Leading American and European Scientists on the Nature of Truth, the Existence of God, and the Role of the Church. Frederick E. Trinklein. Eerdmans, Grand Rapids, Mich., 1971. xxii, 192 pp. Paper, \$3.45.

A History of the Roman World. From 30 B.C. to A.D. 138. Edward T. Salmon. Methuen, London, ed. 6, 1971 (U.S. distributor, Harper and Row, New York). xvi, 368 pp. + map. Cloth, \$11.25; paper, \$5.50. Methuen's History of the Greek and Roman World, vol. 6.

How to Get a Better Job Quicker. Richard A. Payne. Taplinger, New York, 1972. 190 pp. \$5.95.

The Human Dilemma. Herbert N. Woodward. Brookdale, New York, 1971. x, 198 pp. \$5.95.

The Human Quest. A New Look at Science and the Christian Faith. Richard H. Bube. Word Books, Waco, Tex., 1971. 262 pp., illus. \$5.95.

An Illustrated Essay on the Noctuidae of North America with a Colony of Butterflies. A. R. Grote. Classey, Hampton, England, 1971 (U.S. distributor, Entomological Reprint Specialists, Los Angeles). x, 86 pp. + plates. \$16.95. Reprint, with a new foreword, of the 1882 edition.

The Inert Gases. Model Systems for Science. B. L. Smith. Wykeham, London; Springer-Verlag, New York, 1971. xii, 172 pp., illus. Paper, \$6.80. Wykeham Science Series, 16.

Infrared Spectra of Inorganic Compounds. (3800–45cm⁻¹). Richard A. Nyquist and Ronald O. Kagel. Academic Press, New York, 1971. xii, 496 pp., illus. \$20.

International Review of Cytology. Vol. 31. G. H. Bourne, J. F. Danielli, and K. W. Jeon, Eds. Academic Press, New York, 1971. xii, 410 pp., illus. \$21.50.

International Review of Neurobiology. Vol. 14. Carl C. Pfeiffer and John R. Symthies, Eds. Academic Press, New York, 1971. x, 364 pp., illus. \$21.

International Review of Tropical Medicine. Vol. 4. A. W. Woodruff and David Richard Lincicome, Eds. Academic Press, New York, 1971. xii, 268 pp., illus. \$17.50.

Laboratory Explorations in General Zoology. Karl A. Stiles and Robert D. Burns. Macmillan, New York, ed. 5, 1972. xii, 368 pp., illus. Paper, \$5.95.

The Little Book. Refutation of Relativity Theories. Otto Luther. Key Research Corporation, Yorba Linda, Calif., 1971. 40 pp., illus. Paper, 95¢.

Machina Carnis. The Biochemistry of Muscular Contraction in Its Historical Development. Dorothy M. Needham. Cambridge University Press, New York, 1972. xvi, 782 pp., illus. \$55.

MARTHA User's Manual. Paul Penfield, Jr. M.I.T. Press, Cambridge, Mass., 1971. viii, 120 pp., illus. Paper, \$6.95.

Methods in Virology. Vol. 5. Karl Maramorosch and Hilary Koprowski, Eds. Academic Press, New York, 1971. xx, 530 pp., illus. \$28.

Microbiology. Michael J. Pelczar, Jr., and Roger D. Reid. McGraw-Hill, New York, ed. 3, 1972. xii, 948 pp. + plates. \$12.95.

Microreconstruction. W. A. Gaunt. Pit-

man (Medical), London, 1971. xii, 108 pp., illus. £2.25.

Microtectonics along the Western Edge of the Blue Ridge, Maryland and Virginia. Ernst Cloos. Johns Hopkins Press, Baltimore, 1972. xiv, 234 pp., illus. \$12.50. Studies in Geology, No. 20.

Models of Particles and Moving Media. Donald A. Dunn. Academic Press, New York, 1971. xvi, 302 pp., illus. \$13.

Modern Biology. Selected Readings. Roland Hoste, Ed. Penguin, Baltimore, 1971. 368 pp., illus. Paper, \$2.95. Penguin Education Modern Science Studies.

Modern Physics. Selected Readings. David Webber, Ed. Penguin, Baltimore, 1971. 320 pp., illus. Paper, \$3.95. Penguin Education Modern Science Studies.

The Mortal Napoleon III. Roger L. Williams. Princeton University Press, Princeton, N.J., 1972. vi, 226 pp., illus. \$8.50.

Motivation and Management Development. Robert E. Tannehill. Auerbach, Princeton, N.J., 1971. x, 206 pp., illus. \$9.50.

Neurosciences Research Symposium Summaries. An Anthology from the Neurosciences Research Program Bulletin. Vol. 5. Francis O. Schmitt, George Adelman, Theodore Melnechuk, and Frederic G. Worden, Eds. M.I.T. Press, Cambridge, Mass., 1971. viii, 566 pp., illus. \$12.50.

New Energy Technology. Some Facts and Assessments. H. C. Hottel and J. B. Howard. M.I.T. Press, Cambridge, Mass., 1971. xiv, 364 pp., illus. Paper, \$2.95.

The New Prometheus. Creative and Destructive Forces in Modern Science. Robert S. de Ropp. Delacorte, New York, 1972. xiv, 288 pp., illus. \$7.95.

Notes on Medical Virology. Morag C. Timbury. Churchill Livingstone, Edinburgh, ed. 3, 1971 (U.S. distributor, Williams and Wilkins, Baltimore). x, 134 pp., illus. Paper, \$5.

Nuclear Analytical Chemistry 1. Introduction to Nuclear Analytical Chemistry. J. Tölgyessy, S. Varga, and V. Kriván. Translation of the Czech edition by P. Tkáč. University Park Press, Baltimore; Slovak Academy of Sciences, Bratislava, 1971. 272 pp., illus. \$17.50.

The Ontogeny of Vertebrate Behavior. Howard Moltz, Ed. Academic Press, New York, 1971. xii, 500 pp., illus. \$22.50.

Operating Systems Survey. Comtre Corp. Anthony P. Sayers, Ed. Auerbach, Princeton, N.J., 1971. x, 336 pp. Paper, \$14.95. Auerbach Computer Science Series.

Optimizing Methods in Statistics. A symposium, Columbus, Ohio, June 1971. Jagdish S. Rustagi, Ed. Academic Press, New York, 1971. xiv, 488 pp., illus. \$15.

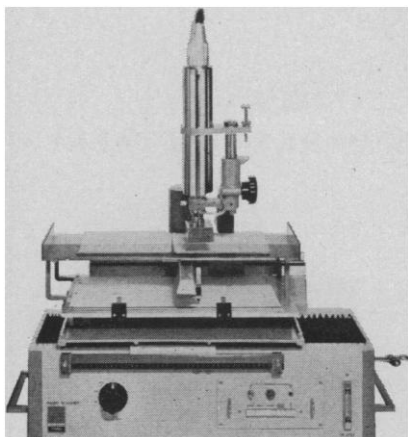
Organic Electronic Spectral Data. Vol. 7, 1964–1965. John P. Phillips, Joseph C. Dacons, and Rip G. Rice, Eds. Wiley-Interscience, New York, 1971. xviii, 1318 pp. \$40.

Paradoxes of Rationality. Theory of Metagames and Political Behavior. Nigel Howard. M.I.T. Press, Cambridge, Mass., 1971. xxiv, 248 pp., illus. \$12.95. Peace Research Studies Series, 1.

Pathobiology. An Introduction. Jeff Minckler, Harold B. Anstall, and Tate M. Minckler, Eds. Mosby, St. Louis, 1971. xiv, 522 pp., illus. \$12.50.

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Lynn. Pergamon, New York, 1971. xiv, 200 pp., illus. \$10.50. International Series of Monographs in Experimental Psychology, vol. 12.

Physical Acoustics. Principles and Methods. Vol. 8. Warren P. Mason and R. N. Thurston, Eds. Academic Press, New York, 1971. xii, 394 pp., illus. \$21.

Plastisols and Organosols. Harold A. Sarvetnick, Ed. Van Nostrand Reinhold, New York, 1972. x, 238 pp., illus. \$12.

Principles of Animal Physiology. James A. Wilson. Macmillan, New York, 1972. xvi, 842 pp., illus. \$14.95.

Progress in Immunology. First International Congress of Immunology. Bernard Amos, Ed. Academic Press, New York, 1971. lx, 1554 pp., illus. \$65.

The Psychology of Learning Mathematics. Richard R. Skemp. Penguin, Baltimore, 1971. 320 pp., illus. Paper, \$2.25. A Pelican Original.

Quench Hardening in Metals. H. Kimura and R. Maddin. North-Holland, Amsterdam; Elsevier, New York, 1971. xii, 122 pp., illus. \$12. Defects in Crystalline Solids, vol. 3.

Report of the Japanese Traverse, Syowa-South Pole, 1968-1969. Masayoshi Murayama, Ed. National Science Museum Polar Research Center, Tokyo, 1971. xii, 280 pp. + plates. Japanese Antarctic Research Expedition Scientific Reports, Special Issue No. 2.

Research in Immunochemistry and Immunobiology. Vol. 1. J. B. G. Kwapinski, Ed. University Park Press, Baltimore, 1972. vi, 296 pp., illus. \$17.50.

Research Techniques for High Pressure and High Temperature. Gene C. Ulmer, Ed. Springer-Verlag, New York, 1971. xii, 368 pp., illus. \$10.

Satellites at Work. In Communications, Meteorology, Geodesy, Navigation, Air Traffic Control, and Earth Resources Technology. William R. Corliss. National Aeronautics and Space Administration, Washington, D.C., 1971 (available from the Superintendent of Documents, Washington, D.C.). 28 pp., illus. Paper, 60¢.

Science in Liberal Arts Colleges. A Longitudinal Study of 49 Selective Colleges. W. Rodman Snelling and Robert F. Boruch. Published for Research Corporation by Columbia University Press, New York, 1972. xvi, 286 pp., illus. \$8.50.

Soil Micro-organisms. T. R. G. Gray and S. T. Williams. Hafner, New York, 1971. viii, 240 pp. + plates. Paper, \$9.95. University Reviews in Botany, 2.

Vitamins and Hormones. Advances in Research and Applications. Vol. 29. Robert S. Harris, Paul L. Munson, Egon Diczfalussy, and John Glover, Eds. Academic Press, New York, 1971. xii, 444 pp., illus. \$21.

Water Balance of Monsoon Asia. A Climatological Approach. Masatoshi M. Yoshino, Ed. University of Hawaii Press, Honolulu, 1971. viii, 308 pp., illus. \$16.

World Communication. Threat or Promise? A Socio-technical Approach. Colin Cherry. Wiley-Interscience, New York, 1971. xiv, 230 pp., illus. \$9.50.

The World of the Bottlenosed Dolphin. David K. Caldwell and Melba C. Caldwell. Lippincott, Philadelphia, 1972. 158 pp., illus. \$5.95. Living World Books.

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