

of experiments attributed to Sydiskis and Roizman (1967) which, alas, these authors have never done. This is but one of several examples. The authors still cling to the notion that some viral polypeptides are synthesized in the nucleus (p. 190), that analyses of detergent-treated (although this fact is obfuscated) nuclei yield meaningful measurements of lipids in the nuclear membrane. I was also puzzled by the apparently profound conclusion (pp. 194–196) that whereas virus-specific antigens are integrated into plasma membrane, viral proteins are not. I would recommend that the reader use the chapter as a source of bibliography and ignore the text.

On the whole, despite the foibles, this is a good book. The bibliography alone is worth the money. The many superb chapters constitute a worthy foundation and source of information on many aspects of herpesviruses for years to come.

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Ciliates

Biology of Tetrahymena. ALFRED M. ELLIOTT, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1973. x, 508 pp., illus. \$35.

The ciliate genus *Tetrahymena* looms out of obscurity into the latest textbooks of cell biology. Unfortunately, however, many biochemists using it know little concerning its life cycle, and its morphologists are often similarly uninformed about its molecular and physiological properties. Elliott's new volume, if read carefully, may improve the situation dramatically. The contributed chapters cover the many fruitful lines of experimentation that have developed since the capture of *T. pyriformis* in sterile culture in 1923. Among the potentially more bewildering topics that are reviewed with clarity, special mention must be made of gluconeogenesis, physiological control mechanisms, nucleic acid pathways, and genetics. The "general bibliography" at the end of the volume contains 1687 references cited in full, accounting for about 60 percent of the publications relating to this genus.

A number of important technical caveats are aired, but there is one out-

standing omission: strain designations relating to forms lurking under the "taxonomic umbrella," *T. pyriformis*, are known to be thoroughly confused. Failure to repeat someone's result may simply mean that your "strain W" is different from his. Worse, the issue of cryptic species within the nominal species *T. pyriformis* continues to be ignored, in the face of ample documentation of genetic and phenotypic diversity. There is general agreement among the contributors that "if the concept of a biological species were adhered to," the breeding groups (syngens) would qualify as separate species. But no one is willing to venture why the biological species concept should *not* be adhered to. Otherwise, the chapter on taxonomy, by John O. Corliss, is unusually detailed and restrained. Most contributors have cited many sets of contradictory results, a number of which are resolved satisfactorily. At least part of the remaining discrepancies must be due to strain differences, the recognition of which might also disarrange some proposed metabolic pathways based on a composite of several strains.

Owing to a long delay in publication, progress has far outstripped several chapters, which may seem rather staid because particular contributors tired of waiting and published similar reviews elsewhere. By far the longest and, in my opinion, the best chapter is by Sally Allen and Ian Gibson, covering the extremely difficult subject of *Tetrahymena* genetics with admirable precision. Allen and Gibson have also concocted an imaginative new model for the organization of the macronucleus, fetchingly illustrated by the symbols \$, ¢, £, d. If the reader can suppress his hysteria sufficiently to turn the page, he is greeted by a further illustration, this time with hearts and flowers. The new model supposes replicating "master" and nonreplicating "slave" copies of individual "replicons," with 45 "slaves" for each "master" to account for the ploidy of the macronucleus. Unfortunately the new theory is at odds with the results of density-label experiments indicating that most, if not all, of the DNA replicates semiconservatively during one cell cycle. How this ciliate organizes its vegetative nucleus remains a real puzzle, among a host of others equally baffling.

J. WYNNE MCCOY

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Books Received

Absolute Analysis. F. Nevanlinna and R. Nevanlinna. Translated from the German edition (Berlin, 1959) by Phillip Emig. Springer-Verlag, New York, 1973. viii, 270 pp., illus. \$36.10. Die Grundlehren der mathematischen Wissenschaften, Band 102.

Abstracts of the Standard Edition of the Complete Psychological Works of Sigmund Freud. Carrie Lee Rothgeb, Ed. International Universities Press, New York, 1974. x, 762 pp. Paper, \$4.95.

Advances in Agronomy. Vol. 25. N. C. Brady, Ed. Academic Press, New York, 1974. xii, 400 pp., illus. \$28.50.

Advances in Atomic and Molecular Physics. Vol. 9. D. R. Bates and Immanuel Estermann, Eds. Academic Press, New York, 1974. xii, 384 pp., illus. \$32.

Advances in Child Development and Behavior. Vol. 8. Hayne W. Reese, Ed. Academic Press, New York, 1974. xiv, 298 pp., illus. \$17.50.

Agricultural Genetics. Selected Topics. Proceedings of a seminar, Maracay, Venezuela, Oct. 1969. Rom Moav, Ed. Halsted (Wiley), New York, and National Council for Research and Development, Jerusalem, Israel, 1973. 352 pp., illus. Paper, \$18.

Alaskan Arctic Tundra. Proceedings of a symposium, Barrow, Alaska, Aug. 1972. Max E. Britton, Ed. Arctic Institute of North America, Washington, D.C., 1973. 224 pp., illus. Cloth, \$10; paper, \$7.50.

The Analysis of Eddy Currents. Richard L. Stoll. Clarendon (Oxford), New York, 1974. xii, 128 pp., illus. \$11.25. Monographs in Electrical and Electronic Engineering.

Bibliography of the Naval Arctic Research Laboratory. Wade W. Gunn, Ed. Arctic Institute of North America, Washington, D.C., 1973. 176 pp. Paper, \$7.50. Technical Paper, No. 24.

Biochemistry of the Developing Brain. Vol. 2. Williamina Himwich, Ed. Dekker, New York, 1974. x, 326 pp., illus. \$24.50.

Biosynthesis. Vol. 2. A Review of the Literature Published during 1972. T. A. Geissman, senior reporter. Chemical Society, London, 1973. x, 308 pp., illus. £8. Specialist Periodical Reports.

Catalysis Reviews. Vol. 8. Heinz Heinemann, Ed. Dekker, New York, 1974. xiv, 348 pp., illus. \$25.50.

Chemical Villains. A Biology of Pollution. James W. Berry, David W. Osgood, and Philip A. St. John. Mosby, St. Louis, 1974. viii, 190 pp., illus. Paper, \$5.75.

The Chemistry and Biochemistry of the Sulfhydryl Group in Amino Acids, Peptides and Proteins. Mendel Friedman. Pergamon, New York, 1973. viii, 486 pp., illus. \$22.50.

Community Psychology and Social Systems. A Conceptual Framework and Intervention Guide. Stanley A. Murrell. Behavioral Publications, New York, 1973. xii, 288 pp., illus. \$9.95.

Comprendre la Démographie. Méthodes d'Analyse et Problèmes de Population. Hubert Gérard and Guillaume Wunsch.

(Continued on page 1308)

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BOOKS RECEIVED

(Continued from page 1278)

Gerard, Verviers, Belgium, 1973 (U.S. distributor, A.D.P., Montreal, Canada). 184 pp., illus. Paper, \$2.60.

Computed Electron Micrographs and Defect Identification. A. K. Head, P. Humble, L. M. Clarebrough, A. J. Morton, and C. T. Forwood. North-Holland, Amsterdam, and Elsevier, New York, 1973. x, 400 pp., illus. \$38. Defects in Crystalline Solids Series, vol. 7.

The Dynamics of Atoms in Crystals. W. Cochran. Crane, Russak, New York, 1974. viii, 146 pp., illus. Cloth, \$13.95; paper, \$6.95. The Structures and Properties of Solids, No. 3.

East from the Andes. Pioneer Settlements in the South American Heartland. Raymond E. Crist and Charles M. Nissly. University of Florida Press, Gainesville, 1973. x, 168 pp., illus. Paper, \$4. Social Sciences Monographs, No. 50.

Elastic Solutions for Soil and Rock Mechanics. H. G. Poulos and E. H. Davis. Wiley, New York, 1974. xii, 412 pp., illus. \$17.50. Series in Soil Engineering.

Electroanalytical Chemistry. A Series of Advances. Vol. 7. Allen J. Bard, Ed. Dekker, New York, 1974. xii, 294 pp., illus. \$24.50.

Electronic Properties of Crystalline Solids. An Introduction to Fundamentals. Richard H. Bube. Academic Press, New York, 1974. xvi, 524 pp., illus. \$35.

Everything You Wanted to Know About Drug Abuse . . . but were afraid to ask. Charles L. Winek. Dekker, New York, 1974. x, 214 pp., \$12.75.

The Evolutionary Imperative. Man's Role in the Immediate Future. Paul S. Henshaw. Exposition Press, Jericho, N.Y., 1974. xii, 140 pp. \$6.

Experimental Plant Physiology. Anthony San Pietro, Ed. Mosby, St. Louis, 1974. xiv, 176 pp., illus. Paper, \$6.75.

Form and Function of Phospholipids. G. B. Ansell, J. N. Hawthorne, and R. M. C. Dawson, Eds. Elsevier, New York, ed. 2, 1973. xiv, 494 pp., illus. \$45. B.B.A. Library, vol. 3.

Foundations of Experimental Research. Robert Plutchik. Harper and Row, New York, ed. 2, 1974. xviii, 332 pp., illus. Paper, \$5.95. Harper's Experimental Psychology Series.

Gazelle-Boy. Jean-Claude Armen. Translated from the French edition (Neuchâtel, Switzerland, 1971) by Stephen Hardman. Universe Books, New York, 1974. 128 pp., illus. \$5.95.

Gebräuche und Leistungsfähigkeit des Menschen im Tragen von Lasten. Eine biogeographische Untersuchung. Georg Kenntner. Junk, The Hague, 1973. xii, 230 pp., illus. + maps. Dfl. 65. Biographica, vol. 3.

Genetic Structure of Populations. Proceedings of a conference, Honolulu, Hawaii, 1973. Newton E. Morton, Ed. University Press of Hawaii, Honolulu, 1973. xiv, 314 pp., illus. \$17.50. Population Genetics Monographs, vol. 3.

A Guide to the Birds of Trinidad and Tobago. Richard French. Livingston, Wynnewood, Pa., 1974. xx, 470 pp., illus. + plates. \$12.50. The Asa Wright Nature Centre Publication No. 1.

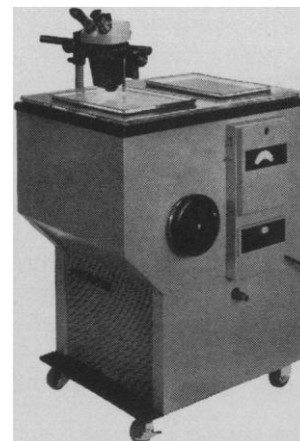
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Handbook of Micromethods for the Biological Sciences. Georg Keleti and William H. Lederer. Van Nostrand Reinhold, New York, 1974. xvi, 166 pp., illus. \$12.50.

The Immortality Factor. Osborn Segerberg, Jr. Dutton, New York, 1974. xviii, 392 pp. \$10.

Indians of Arizona. A Contemporary Perspective. Thomas Weaver, Ed. University of Arizona Press, Tucson, 1974. xii, 170 pp., illus. Paper, \$3.95.

Individual Differences in Children. Jack C. Westman, Ed. Wiley-Interscience, New York, 1973. xvi, 346 pp., illus. \$15.95.

Injection Molding. Theory and Practice. Irvin I. Rubin. Wiley-Interscience, New York, 1973. xiv, 658 pp., illus. \$24.95. Society of Plastics Engineers Monographs Series, vol. 1.

Integral Equations. Harry Hochstadt. Wiley-Interscience, New York, 1973. x, 282 pp. \$16.95. Pure and Applied Mathematics Series.

Intracellular Staining in Neurobiology. Stanley B. Kater and Charles Nicholson, Eds. Springer-Verlag, New York, 1973. xiv, 332 pp., illus. + plates. \$24.80.

Introduction to the Properties of Crystal Surfaces. J. M. Blakely. Pergamon, New York, 1973. xii, 262 pp., illus. \$10.50. International Series on Materials Science and Technology, vol. 12.

Introduction to Rational Elasticity. C.-C. Wang and C. Truesdell. Noordhoff, Leyden, The Netherlands, 1973. xii, 556 pp., illus. Dfl. 130. Mechanics of continua.

Invariant Subspaces. Heydar Radjavi and Peter Rosenthal. Springer-Verlag, New York, 1973. xii, 220 pp. \$20.50. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 77.

Ion Beams. With Applications to Ion Implantation. Robert G. Wilson and George R. Brewer. Wiley-Interscience, New York, 1973. xii, 500 pp., illus. \$19.95.

Ion Transport in Plants. Proceedings of a meeting, Liverpool, July 1972. W. P. Anderson. Academic Press, New York, 1973. xx, 630 pp., illus. \$28.

Iron-Sulfur Proteins. Vol. 2, Molecular Properties. Walter Lovenberg, Ed. Academic Press, New York, 1974. xiv, 344 pp., illus. \$29. Molecular Biology Series.

Issues in Physiological Psychology. Francis Leukel, Ed. Mosby, St. Louis, 1974. viii, 340 pp., illus. Paper, \$6.95.

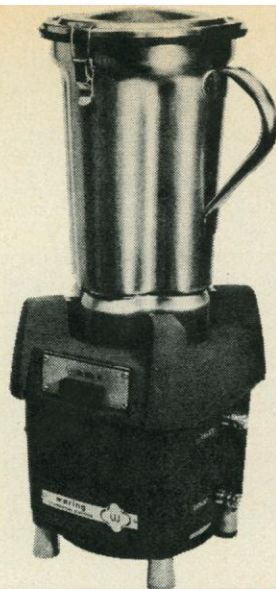
The Kairos Dimension. Dorelle Heisel. Interface (Gordon and Breach), New York, 1974. iv, 300 pp. Cloth, \$8.95; paper, \$3.95.

The Legacy of Mikolaj Kopernik. One Man's Love Affair with the Universe. Czeslaw Jozef Szymczak. Great Lakes Publishing Co., Milwaukee, Wis., 1973. xviii, 84 pp., illus. Paper, \$3.

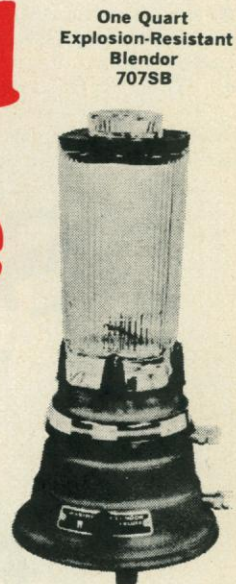
Linear Microelectronic Systems. A. G. Martin and F. W. Stephenson. Macmillan, London, 1974 (U.S. distributor, Crane, Russak, New York). x, 242 pp., illus. \$16.50. Electrical and Electronic Engineering.

Linguistics and Information Science. Karen Sparck Jones and Martin Kay. Academic Press, New York, 1973. xii, 244 pp. \$14.50. Library and Information Science. International Federation for Documentation, No. 492.

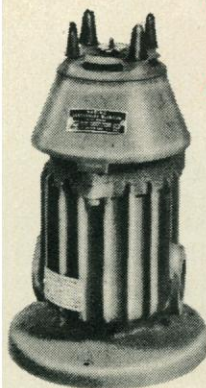
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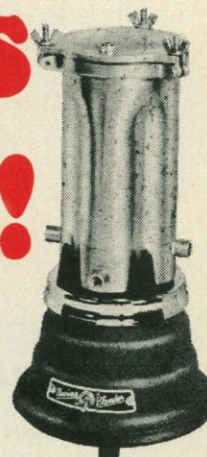
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Lipid Analysis. Isolation, Separation, Identification and Structural Analysis of Lipids. William W. Christie. Pergamon, New York, 1974. xiv, 338 pp., illus. \$18.

Literature in Digital Signal Processing. Terminology and Permuted Title Index. Howard D. Helms and Lawrence R. Rabiner, Eds. Institute of Electrical and Electronics Engineers, New York, 1973 (distributor, Wiley, New York). x, 98 pp., illus. Cloth, \$8.95; paper, \$4.50. IEEE Press Selected Reprint Series.

Lymphocyte Recognition and Effector Mechanisms. Proceedings of a conference, Uppsala, Sweden, Aug. 1973. Kerstin Lindahl-Kiessling, David Osoba, and Vera Runnström-Reio, Eds. Academic Press, New York, 1974. xxx, 692 pp., illus. \$24.50.

Methods of Animal Experimentation. Vol. 4, Environment and the Special

Senses. William I. Gay, Ed. Academic Press, New York, 1973. xiv, 384 pp., illus. \$29.50.

Micromethods in Molecular Biology. Volker Neuhoﬀ, Ed. Springer-Verlag, New York, 1973. xvi, 428 pp., illus. \$40.20. Molecular Biology, Biochemistry, and Biophysics, vol. 14.

Mössbauer Spectroscopy. An Introduction for Inorganic Chemists and Geochemists. G. M. Bancroft. Halsted (Wiley), New York, 1973. xii, 252 pp., illus. \$21.50.

The Neurosciences. Proceedings of the Third Intensive Study Program, Boulder, Colo., July 1972. Francis O. Schmitt and Frederic G. Worden, Eds. MIT Press, Cambridge, Mass., 1974. xxviii, 1108 pp., illus. \$22.50.

New Concepts I. A. Davison, Ed. Springer-Verlag, New York, 1973. iv, 150 pp., illus. \$19.70.

Nonlinear Parameter Estimation. Yonathan Bard. Academic Press, New York, 1974. x, 342 pp., illus. \$22.

Nonlinear Waves. Sidney Leibovich and A. Richard Seebass, Eds. Cornell University Press, Ithaca, N.Y., 1974. xiv, 332 pp., illus. \$16.50.

Occupational Careers. A Sociological Perspective. Walter L. Slocum. Aldine, Chicago, ed. 2, 1974. x, 350 pp., illus. \$12.50.

The Oviduct and Its Functions. Papers from a symposium, Athens, Ga., Oct. 1972. A. D. Johnson and C. W. Foley, Eds. Academic Press, New York, 1974. xviii, 370 pp., illus. \$14.

A Phylogenetic Tree of the Animal Kingdom. Including Orders and Higher Categories. Jarmila Kukalová-Peck. National Museums of Canada, Ottawa, 1973. 78 pp., illus. + charts. Spiral bound, \$5.75. National Museum of Natural Sciences Publications in Zoology, No. 8.

Physiology of the Kidney. Lawrence P. Sullivan. Lea and Febiger, Philadelphia, 1974. xiv, 150 pp., illus. Paper, \$6.50.

Planning and Budgeting in Poor Countries. Naomi Caiden and Aaron Wildavsky. Wiley-Interscience, New York, 1974. xxxvi, 370 pp. \$14.95. Comparative Studies in Behavioral Science.

Polymer Chemistry. Bruno Vollmert. Translated from the German (Karlsruhe, 1973) by Edmund H. Immergut. Springer-Verlag, New York, 1973. xviii, 652 pp., illus. \$29.50.

Progress in Hematology. Vol. 8. Elmer B. Brown, Ed. Grune and Stratton, New York, 1973. xvi, 332 pp., illus. \$22.50.

Proteins. Structure and Function. Albert Light. Prentice-Hall, Englewood Cliffs, N.J., 1974. x, 166 pp., illus. Paper, \$6.95.

The Psychobiology of Sensory Coding. William R. Uttal. Harper and Row, New York, 1973. xviii, 680 pp., illus. \$16.95. Physiological Psychology Series.

Regulation of Insect Populations by Microorganisms. Papers from a conference, New York, Oct. 1972. Lee A. Bulla, Jr., Ed. New York Academy of Sciences, New York, 1973. 244 pp., illus. Paper, \$26. *Annals of the New York Academy of Sciences*, vol. 217.

Science for the People. The Origins of the School Science Curriculum in England. David Layton. Science History Publications, New York, 1974. 226 pp., illus. \$10.

Scientific Activities 1972. Weizmann Institute of Science, Rehovot, Israel, 1973. xii, 472 pp. Paper. Reports of Scientific Activities.

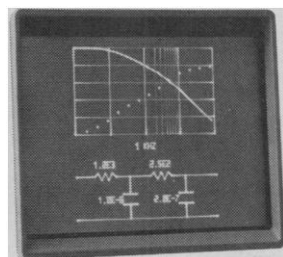
Scientific Papers of Arthur Holly Compton. X-ray and Other Studies. Robert S. Shankland. University of Chicago Press, Chicago, 1973. xxxviii, 778 pp., illus. \$27.50.

Scientific Progress Report. January 1970-June 1972. Faculty of Health Sciences, State University of New York at Buffalo, Amherst, N.Y., 1973. vi, 280 pp. Paper.

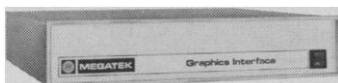
Sea Urchin Development. Cellular and Molecular Aspects. Louis W. Stearns. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1974. xii, 340 pp., illus. \$20.

Signals and Linear Systems. Robert A. Gabel and Richard A. Roberts. Wiley,

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New York, 1973. xiv, 416 pp., illus. \$15.50.

Social Processes of Scientific Development. Richard Whitley, Ed. Routledge and Kegan Paul, Boston, 1974. x, 286 pp., illus. \$19.95.

Social Treatment. An Approach to Interpersonal Helping. James K. Whittaker. Aldine, Chicago, 1974. x, 270 pp. \$9.75. Modern Applications of Social Work Series.

Specific Production of Aquatic Invertebrates. V. E. Zaika. Translated from the Russian edition (Kiev, 1972) by A. Mercado. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. vi, 154 pp., illus. \$19.75.

Spectroscopic and Chromatographic Analysis of Mineral Oil. S. H. Kägler. Translated from the German edition (Heidelberg, 1969) by J. Schmorak. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. xiv, 560 pp., illus. \$65.

The Structure and Function of Muscle. Vol. 4, Pharmacology and Disease. Geoffrey H. Bourne, Ed. Academic Press, New York, ed. 2, 1973. xx, 572 pp., illus. \$40.

The Structure of Marine Ecosystems. John H. Steele. Harvard University Press, Cambridge, Mass., 1974. xii, 128 pp., illus. \$7.95.

The Structure of Matter. The Growth of Man's Ideas on the Nature of Matter. Joan Solomon. Halsted (Wiley), New York, 1974. 180 pp., illus. \$9.95. Physics and Humanities Series.

The Structure of Space. The Growth of Man's Ideas on the Nature of Forces, Fields and Waves. John Solomon. Halsted (Wiley), New York, 1974. 220 pp., illus. \$10.95. Physics and Humanities Series.

Symposium on the Theory of Scheduling and Its Applications. Papers from a symposium, Raleigh, N.C., May 1972. S. E. Elmaghraby, Ed. Springer-Verlag, New York, 1973. viii, 438 pp., illus. Paper, \$13.20. Lecture Notes in Economics and Mathematical Systems, vol. 86.

Télédétection et Stéréophotogrammétrie dans les Sciences de la Terre. Serge Paul. Doin, Paris, 1973. xviii, 342 pp., illus. + charts. Paper, 59 F.

Temporal Aspects of Therapeutics. Proceedings of a conference, Yosemite Valley, Calif., Oct. 1972. John Urquhart and F. Eugene Yates, Eds. Plenum, New York, 1973. x, 214 pp., illus. \$14.50. ALZA Conference Series, vol. 2.

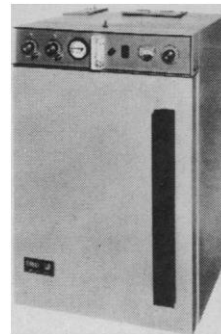
Thin-Shell Structures. Theory, Experiment and Design. Proceedings of a symposium, Pasadena, Calif., June 1972. Y. C. Fung and E. E. Sechler, Eds. Prentice-Hall, Englewood Cliffs, N.J., 1974. xxiv, 616 pp., illus. \$21.95.

Vertebrate Regeneration. C. S. Thornton and S. C. Bromley, Eds. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1973. xiv, 512 pp., illus. \$25. Benchmark Papers in Biological Concepts.

Wave Mechanics and its Applications. P. Gombás and D. Kisdi. Translated from the Hungarian edition (Budapest, 1973) by J. Schanda. Pergamon, New York, 1974. xii, 238 pp., illus. \$10.50. International Series of Monographs in Natural Philosophy, vol. 58.

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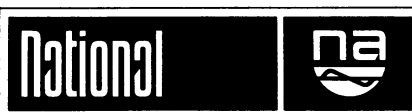
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