

ships for each gene of interest. Furthermore, it usually turns out that the gene of interest is flanked by markers having designations like *zwf*, *gnd*, *cdx*, *sex*, *cdc*, *ubi*, *bdx* (or simply *ts*), making another foray into the library necessary in order to find out what these things mean. It was therefore a splendid idea to publish a handbook that would collect in one place genetic information for a variety of organisms.

The first thing one would expect in a *Handbook of Genetics* is the latest comprehensive maps together with complete tables of gene designations, their meanings, and references to the literature concerning their functions. One would further expect that such a handbook would include every organism for which a substantial linkage map has been constructed. The volumes under review (covering bacteria, bacteriophages, fungi, plants, plant viruses, and protists) unfortunately fall seriously short of the goal, but they still may help fill an important need.

Indeed, several of the articles in these volumes (those on *E. coli*; bacteriophages λ , T4, and ϕ X174; the tryptophan operon of *E. coli*; and the histidine operon of *S. typhimurium*) contain only a map and a marker list. If all the articles had been of this type, we would have been satisfied; the handbook would have been short and universally accepted, like the *Handbook of Chemistry and Physics*. It should be noted, since accuracy is important, that a major error exists in the map of the histidine operon—genes I and E are deleted and genes A and F are duplicated.

A second set of articles includes the essential elements (map and list) and in addition contains more elaborate descriptions of relevant material (mutant isolation, media, storage methods, mapping techniques, dominance and complementation tests, life cycles, and so forth). In most of these cases the additional material is well chosen and illuminating; occasionally, however, it is voluminous, speculative, or distracting—out of place in a “handbook.”

Unfortunately, a third set of articles (those on *Salmonella*, *Sordaria*, *Neurospora*, *Coprinus*, cotton, *Arabidopsis*, *Nicotiana*, *Anthirrhinum*, and *Collinsia*) deals only with peripheral matters and does not even contain maps, let alone marker lists.

Worse yet, many organisms of genetic importance are omitted completely: for instance, in volume 1, the *E. coli* bacteriophages T5, T7, P1, P2; all the *Bacillus subtilis* bacteriophages; and the *Salmonella* phages P22 and ϵ^{34} . Additional fine structure maps of the π II genes of T4, the *arom* and *leu* systems in *Neurospora*, and the *cyc-1* and *his-4* genes in yeast would also have been welcome.

Finally, there is a set of miscellaneous articles containing such things as elegant and thorough reviews of years of research (Sonneborn on *Paramecium*), brief sketches of current thinking (Campbell reminds us about episomes and Sanders simplifies the lactose operon), and speculation (Margulies on evolution). These are sometimes beautiful and valuable to specialists, but they are not material for a “handbook.”

These volumes may be useful, but they are far from ideal. They contain both more and less than they should, and thereby turn out to be expensive and wasteful compared to what could have been accomplished with better editing.

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Nutritional Deficiencies

Protein-Calorie Malnutrition. Papers from a symposium, Chiang Mai, Thailand, Jan. 1973. ROBERT E. OLSON, Ed. Academic Press, New York, 1975. xxvi, 468 pp., illus. \$29.50. Nutrition Foundation Monograph Series.

All aspects of protein-calorie malnutrition (PCM) are considered in this book, from biochemical responses to epidemiology and prevention. Considerable attention is given to the controversy regarding the relative importance of protein and calories in the pathogenesis and treatment of this disease, but not to the exclusion of information on the specific vitamin and mineral deficiencies associated with it in certain parts of the world.

With respect to the protein-versus-calorie controversy, it is apparent from this book that the widely accepted view of the '50's and '60's that the lack of high-quality protein intake is the primary culprit in PCM has given way to the idea that insufficient caloric intake is a major cause of the syndrome, although it would appear that there are now sufficient data available to refute any assertion that inadequate protein intake plays no part. The significance of the change in perspective lies with the conclusion it leads to: that the utilization of the diets and foods already available in most communities in a more effective way is quite a feasible approach to preventing PCM.

After reading a couple of chapters in this

book the reader may feel overwhelmed by the complexity of the factors involved in PCM. However, other chapters suggest that certain components of this syndrome may be specific to just one part of the world. For example, O. Thanangkul in his discussion of vitamin deficiencies in PCM indicates that deficiencies of one B vitamin may occur in PCM patients in one part of the world and not in patients in another. Also, the manifestations of protein deficiency in the mouth, skin, and gastrointestinal tract may overshadow the effects of deficiencies in B-complex vitamins. Thus, the clinical signs of PCM relative to vitamin-deficiency diseases are often deceptive. Since most studies show that children with PCM have lowered stores of water-soluble vitamins, it is suggested that these vitamins be administered during recovery from PCM. The same approach might also be taken with many minerals. H. H. Sanstead indicates that the metabolism of copper, zinc, chromium, and selenium is affected in PCM and that it is just a matter of time before some of the other trace elements are shown to be involved.

The discussions of the role of fat-soluble vitamins, endocrines, infection, and other factors in PCM make it clear that a complete understanding of this syndrome must await the elucidation of the role of many essential nutrients and the response of the child to a wide variety of nutritional deficiencies in many different environments.

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Books Received

Advance of Phycology in Japan. Jun Tokida and Hiroyuki Hirose, Eds. Junk, The Hague, 1975. 356 pp., illus. Dfl. 80.

Agnogenic Myeloid Metaplasia. Murray N. Silverstein. Publishing Sciences Group, Acton, Mass., 1975. viii, 126 pp., illus. \$20.

Anatomy. A Regional Atlas of the Human Body. Carmine D. Clemente. Lea and Febiger, Philadelphia, 1975. viii, 322 pp. \$24.50.

Astrophysical Formulae. A Compendium for the Physicist and Astrophysicist. Kenneth R. Lang. Springer-Verlag, New York, 1974. xxviii, 738 pp. \$78.80.

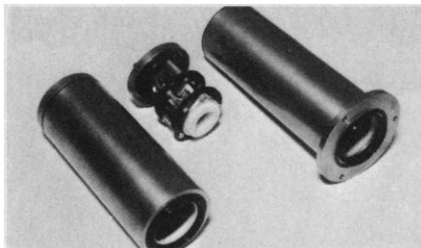
Behavioral Research Methods in Environmental Design. William Michelson, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1975 (distributor, Halsted [Wiley], New York). x, 308 pp., illus. Cloth, \$25; paper, \$12.50. Community Development Series, 8.

Biochemistry of Human Cancer. Oscar Bodansky. Academic Press, New York, 1975. xiv, 658 pp., illus. \$39.50.

Biology. A Contemporary View. Thomas A. Steyaert. McGraw-Hill, New York, 1975. xii, 500 pp. + plates. \$11.95.

Bridge Deck Analysis. A. R. Cusens and R. P.

(Continued on page 308)

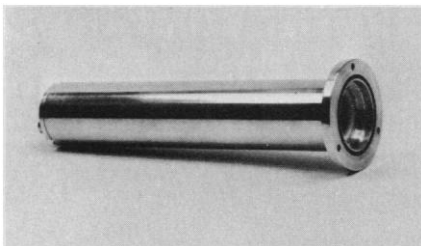


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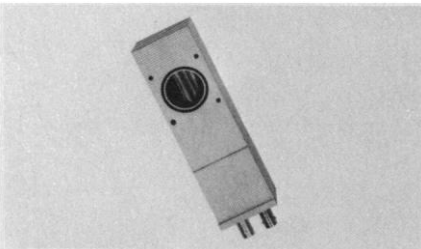
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BOOKS RECEIVED

(Continued from page 284)

Pama. Wiley-Interscience, New York, 1975. xvi, 278 pp., illus. \$24.95.

The Calculating Book. Fun and Games with Your Pocket Calculator. James T. Rogers. Random. New York, 1975. viii, 82 pp., illus. Paper, \$2.95.

Calculus and Analytic Geometry. Robert G. Fisher and Allen D. Ziebur. Prentice-Hall, Englewood Cliffs, N.J., ed. 3, 1975. xiv, 818 pp., illus. \$14.95.

Chemical Analysis of Ecological Materials. Stewart E. Allen, H. Max Grimshaw, John A. Parkinson, and Christopher Quarmby. Halsted (Wiley), New York, 1975. x, 566 pp., illus. \$39.95.

Chemistry. A Life Science Approach. Stuart J. Baum and Charles W. J. Scaife. Macmillan, New York, 1975. xx, 746 pp., illus. \$13.95.

Complex Variables for Scientists and Engineers. John D. Paliouras. Macmillan, New York, 1975. xii, 372 pp., illus. \$12.95.

Computers and the Social Environment. Fred Gruenberger. Melville (Wiley), Los Angeles, 1975. xii, 164 pp., illus. \$9.95.

Concepts of Evolution. Everett C. Olson and Jane Ann Robinson. Merrill, Columbus, Ohio, 1975. x, 262 pp., illus. Paper, \$4.50.

Continental Drift. A Study of the Earth's Moving Surface. Don and Maureen Tarling. Anchor (Doubleday), Garden City, N.Y., ed. 2, 1975. xvi, 142 pp., illus. Paper, \$1.95. Science Study Series.

Current Topics in Microbiology and Immunology. Ergebnisse der Mikrobiologie und Immunitätsforschung. Vol. 68. W. Arber and fourteen others, Eds. Springer-Verlag, New York, 1974. iv, 176 pp., illus. \$30.40.

The Dawnseekers. The First History of American Paleontology. Robert West Howard. Harcourt Brace Jovanovich, New York, 1975. xvi, 314 pp. + plates. \$8.95.

Diffusion in Solids. Recent Developments. A. S. Nowick and J. J. Burton, Eds. Academic Press, New York, 1975. xiv, 492 pp., illus. \$45. Materials Science and Technology.

Dynamics. SI-Version. J. L. Meriam. Wiley, New York, ed. 2, 1975. xviii, 478 pp., illus. \$13.95.

Electronic Circuit Behavior. Daniel L. Metzger. Prentice-Hall, Englewood Cliffs, N.J., 1975. xviii, 426 pp., illus. \$15.95.

Endocrine Physiology. S. M. McCann, Ed. Butterworth, London, and University Park Press, Baltimore, 1974. xii, 348 pp., illus. \$19.50. MTP International Review of Science. Physiology, Series One, vol. 5.

Energy. Resource, Slave, Pollutant. A Physical Science Text. Robert S. Rouse and Robert O. Smith. Macmillan, New York, 1975. xviii, 520 pp., illus. \$12.95.

Energy. Gerard M. Crawley. Macmillan, New York, 1975. xiv, 338 pp., illus. \$10.95.

Entropy-Driven Processes in Biology. Polymerization of Tobacco Mosaic Virus Protein and Similar Reactions. Max A. Lauffer. Springer-Verlag, New York, 1975. x, 264 pp., illus. \$30. Molecular Biology, Biochemistry and Biophysics, 20.

Environment and Plant Ecology. John R. Etherington with a chapter by W. Armstrong. Wiley, New York, 1975. xii, 348 pp., illus. \$22.50.

Evaluation in the Schools. A Human Process for Renewal. John L. Hayman, Jr., and Rodney N. Napier. Brooks/Cole, Monterey, Calif., 1975. xii, 144 pp. Paper, \$3.95. Basic Concepts in Educational Psychology Series.

Evoked Response Audiometry. A Topical and Historical Review. John P. Reneau and Gail Z. Hnatow. University Park Press, Baltimore, 1975. xx, 174 pp., illus. \$12.50.

Evolution. From Stellar Dust to Technological Society. Halsey W. Miller and Carleen S. Miller. Stipes, Champaign, Ill., 1975. iv, 198 pp., illus. Paper, \$6.60.

Excitation and Inhibition. Synaptic Morphology. Koji Uchizono. Igaku Shoin, Tokyo, and Elsevier, New York, 1975. vi, 218 pp., illus. \$47.95.

The Experience of Landscape. Jay Appleton. Wiley, New York, 1975. xiv, 294 pp., illus. \$26.

Experimental Approaches to Psychopathology. Mitchell L. Kietzman, Samuel Sutton, and Joseph Zubin, Eds. Academic Press, New York, 1975. xviii, 488 pp., illus. \$19. Personality and Psychopathology, 15.

Exploratory Concepts in Muscular Dystrophy II. Control Mechanisms in Development and Function of Muscle and Their Relationship to Muscular Dystrophy and Related Neuromuscular Diseases. Proceedings of a conference, Carefree, Ariz., Oct. 1973. A. T. Milhorat, Ed. Excerpta Medica, Amsterdam, and Elsevier, New York, 1974. xviii, 664 pp., illus. \$51.95.

Female of the Species. M. Kay Martin and Barbara Voorhies. xiv, 432 pp. Cloth, \$15; paper, \$6.50.

The Founders of Electrochemistry. Samuel Ruben. Dorrance, Philadelphia, 1975. viii, 108 pp., illus. \$5.95.

From Geometry to Topology. H. Graham Flegg. Crane, Russak, New York, 1975. xii, 186 pp., illus. \$10.50.

The Galactic Club. Intelligent Life in Outer Space. Ronald N. Bracewell. Freeman, San Francisco, 1975 (trade distributor, Scribner, New York). xiv, 142 pp., illus. Cloth, \$6.95; paper, \$3.95. The Portable University. Reprint of the 1974 edition.

Game Theory and Politics. Steven J. Brams. Free Press, New York, 1975. xxiv, 312 pp., illus. Paper, \$6.95.

Ganja in Jamaica. A Medical Anthropological Study of Chronic Marijuana Use. Vera Rubin and Lambros Comitas. Mouton, The Hague, 1975 (U.S. distributor, Mouton/MacFarland Publications, Scotch Plains, N.J.). xx, 206 pp. \$9.95. New Babylon Studies in the Social Sciences, 26.

Gas Chromatographic Applications in Microbiology and Medicine. Brij M. Mitraka. Wiley, New York, 1975. xx, 472 pp., illus. \$27.50. Techniques in Pure and Applied Microbiology. A Wiley Biomedical-Health Publication.

Gastrointestinal Physiology. E. D. Jacobson and L. L. Shanbour, Eds. Butterworth, London, and University Park Press, Baltimore, 1974. xii, 386 pp., illus. \$19.50. MTP International Review of Science. Physiology, Series One, vol. 4.

General Biology. George B. Noland and William C. Beaver. Mosby, St. Louis, ed. 9, 1975. xiv, 580 pp., illus. \$12.95.

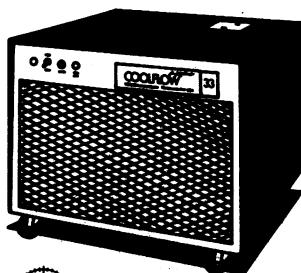
The Gentle Tasaday. A Stone Age People in the Philippine Rain Forest. John Nance. Harcourt Brace Jovanovich, New York, 1975. xiv, 466 pp. + plates. \$15.

Geochemistry of Water. Yasushi Kitano, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1975 (distributor, Halsted [Wiley], New York). xvi, 456 pp., illus. \$27. Benchmark Papers in Geology, vol. 16.

Geography. A Modern Synthesis. Peter Haggett. Harper and Row, New York, ed. 2, 1975. xx, 620 pp., illus. \$13.95. Harper and Row Series in Geography. Study guide, John R. Healy and Larry K. Stephenson. iv, 206 pp., illus. Paper, \$4.50.

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La Géothermie. Jean Goguel. Doin, Paris, 1975. 172 pp., illus. Paper, 88 F.

A Guidebook to Mechanism in Organic Chemistry. Peter Sykes. Halsted (Wiley), New York, ed. 4, 1975. xii, 362 pp., illus. Paper, \$7.95.

Handbook of Sensory Physiology. Vol. 6, Vestibular System. Part 2, Psychophysics, Applied Aspects and General Interpretations. H. H. Kornhuber, Ed. Springer-Verlag, New York, 1974. viii, 680 pp., illus. \$102.10.

Heavy Metal Toxicity, Safety and Hormology. T. D. Luckey, B. Venugopal, and D. Hutcheson. Thieme, Stuttgart, and Academic Press, New York, 1975. vi, 120 pp., illus. \$14.50. Environmental Quality and Safety, Supplement Vol. 1.

High Rupturing Capacity Fuses. Design and Application for Safety in Electrical Systems. E. Jacks. Spon, London, and Halsted (Wiley), New York, 1975. xiv, 280 pp., illus. \$15.75.

Highway Traffic Analysis and Design. R. J. Salter. Addison-Wesley, Reading, Mass., 1974. viii, 378 pp., illus. \$17.50.

History and Systems of Psychology. William S. Sahakian. Schenkman, Cambridge, Mass., and Halsted (Wiley), New York, 1975. xviii, 494 pp. Cloth, \$19.50; paper, \$8.95.

History of Rocketry and Space Travel. Werner von Braun and Frederick I. Ordway III. Illustrated by Harry H-K Lange. Crowell, New York, ed. 3, 1975. xii, 308 pp. + plates. \$25.

Human Aggression and Conflict. Interdisciplinary Perspectives. Klaus R. Scherer, Ronald P. Abeles, and Claude S. Fischer. Prentice-Hall, Englewood Cliffs, N.J., 1975. xiv, 338 pp., illus. Paper, \$7.95. Prentice-Hall Psychology Series.

Human Genetics. Vol. 1. N. P. Bochkov, Ed. Translated from the Russian edition (Moscow, 1973). Hall, Boston, 1975. xii, 120 pp., illus. \$22. Itogi Summaries of Scientific Progress. Biology Series.

The Human Resources of Science and Engineering. Today and Tomorrow. Papers from an AAAS symposium, New York, Jan. 1975. Scientific Manpower Commission, Washington, D.C., 1975. iv, 100 pp., illus. Paper, \$10.

Immunological Approaches to Fertility Control. Proceedings of a symposium, Geneva, July 1974. E. Diczfalusy, Ed. Karolinska Institutet, Stockholm, 1974. 488 pp., illus. Karolinska Symposia on Research Methods in Reproductive Endocrinology.

Inherited Biochemical Disorders and Uric Acid Metabolism. David S. Newcombe. University Park Press, Baltimore, 1975. xvi, 282 pp., illus. \$24.50.

Inhibitors of Nucleic Acid Synthesis. Biophysical and Biochemical Aspects. Helga Kersten and Walter Kersten. Springer-Verlag, New York, 1974. x, 186 pp., illus. \$27.90. Molecular Biology, Biochemistry and Biophysics, 18.

Insecticides of the Future. Martin Jacobson, Ed. Dekker, New York, 1975. viii, 94 pp., illus. Paper, \$9.50. Reprinted from *Environmental Letters*, vol. 18, No. 1.

Instrumentation in Industry. Harold E. Soisson. Wiley-Interscience, New York, 1975. xii, 564 pp., illus. \$24.95.

International Review of Experimental Pathology. Vol. 14. G. W. Richter and M. A. Epstein, Eds. Academic Press, New York, 1975. xiv, 306 pp., illus. \$29.50.

International Review of Neurobiology. Vol. 17. Carl C. Pfeiffer and John R. Smythies, Eds. Academic Press, New York, 1975. viii, 358 pp., illus. \$37.50.

Interstellar Contact. Duncan Lunan. Regnery, Chicago, 1975. x, 324 pp., illus. \$9.95. U.S. edition of *Man and the Stars* (London, 1974).

Intravenous Nutrition in the High Risk Infant. Proceedings of two conferences, Elkridge, Md., Oct. 1971, and Washington, D.C., May 1972. Robert W. Winters and Eileen G. Hasselmeyer, Eds. Wiley, New York, 1975. xxiv, 498 pp., illus. \$27.50. Clinical Pediatrics, Maternal and Child Health. A Wiley Biomedical-Health Publication.

Introduction to Petroleum Geology. G. D. Hobson and E. N. Tiratsoo. Scientific Press, Beaconsfield, England, 1975 (U.S. distributor, Geology Press, New York). viii, 300 pp., illus. \$28.50.

Introductory Chemistry. Robert J. Ouellette. Harper and Row, New York, ed. 2, 1975. xvi, 704 pp., illus. \$12.95.

Introductory Nutrition. Helen Andrews Guthrie. Mosby, St. Louis, ed. 3, 1975. viii, 576 pp., illus. \$10.95.

Investigations in Russell Cave. Russell Cave National Monument, Alabama. John W. Griffin. National Park Service, Washington, D.C., 1974 (available from the Superintendent of Documents, Washington, D.C.). xiv, 128 pp., illus. Paper, \$2.05. Publications in Archeology 13.

Irrigation's Impact on Society. Papers from a symposium, Long Beach, Calif., Apr. 1972. Theodore E. Downing and McGuire Gibson, Eds. University of Arizona Press, Tucson, 1974. xii, 182 pp., illus. Paper, \$5.95. Anthropological Papers of the University of Arizona, No. 25.

Kinship in Bali. Hildred Geertz and Clifford Geertz. University of Chicago Press, Chicago, 1975. xiv, 214 pp., illus. \$12.50.

Late Adulthood. Perspectives on Human Development. Richard A. Kalish. Brooks/Cole, Monterey, Calif., 1975. x, 134 pp. Paper, \$3.95. Life-Span Human Development Series.

Light's Manual. Intertidal Invertebrates of the Central California Coast. Ralph I. Smith and James T. Carlton, Eds. University of California Press, Berkeley, ed. 3, 1975. xviii, 716 pp., illus. \$20.

Lithium Research and Therapy. F. N. Johnson, Ed. Academic Press, New York, 1975. xxvi, 570 pp., illus. \$35.75.

Macromolecular Reviews. Vol. 9. A. Peterlin, M. Goodman, H. F. Mark, S. Okamura, and B. H. Zimm, Eds. Interscience (Wiley), New York, 1975. iv, 200 pp., illus. Paper, \$12. Journal of Polymer Science.

Mammals of New Mexico. James S. Findley, Arthur H. Harris, Don E. Wilson, and Clyde Jones. University of New Mexico Press, Albuquerque, 1975. xxii, 360 pp., illus. \$8.50.

Man-Made Fibres. R. W. Moncrieff. Halsted (Wiley), New York, ed. 6, 1975. x, 1094 pp., illus. \$37.50.

Marine and Estuarine Microbiology Laboratory Manual. R. R. Colwell and nine others. University Park Press, Baltimore, 1975. vi, 96 pp., illus. Spiral bound, \$9.50.

Martin Gardner's Sixth Book of Mathematical Games from Scientific American. Scribner, New York, 1975. x, 262 pp., illus. Paper, \$5.95.

Medical Aspects of Drug Abuse. Ralph W. Richter, Ed. Harper and Row Medical Department, Hagerstown, Md., 1975. xxii, 400 pp., illus. \$22.50.

Membranes in Separations. Sun-Tak Hwang and Karl Kammermeyer. Wiley-Interscience, New York, 1975. xxii, 560 pp., illus. \$35.50. Techniques of Chemistry, vol. 7.

Mendelian Inheritance in Man. Catalogs of Autosomal Dominant, Autosomal Recessive, and X-Linked Phenotypes. Victor A. McKusick. Johns Hopkins University Press, Baltimore, ed. 4, 1975. lxxx, 838 pp. \$17.50.

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W. G. Ernst, Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1975 (distributor, Halsted [Wiley], New York). xiv, 440 pp., illus. \$27. Benchmark Papers in Geology, vol. 17.

Methods in Enzymology. Sidney P. Colowick and Nathan O. Kaplan, Eds. Vol. 40, Hormone Action. Part E, Nuclear Structure and Function. Bert W. O'Malley and Joel G. Hardman, Eds. Academic Press, New York, 1975. xvi, 404 pp., illus. \$29.50.

Neural Integration of Physiological Mechanisms and Behaviour. J. A. F. Stevenson Memorial Volume. Gordon J. Mogenson, Franco R. Calaresu, and Blanche Box, Eds. University of Toronto Press, Toronto, 1975. xvi, 442 pp., illus. \$35.

Nonlinear Networks. Theory and Analysis. Alan N. Willson, Jr., Ed. IEEE Press, New York, 1975 (distributor, Wiley, New York). vi, 398 pp., illus. \$16.95. A Volume in the IEEE Press Selected Reprint Series.

North America. A Geography of Canada and the United States. J. H. Paterson. Oxford University Press, New York, ed. 5, 1975. xvi, 368 pp., illus. \$9.50.

Nutrition and Our Overpopulated Planet. Sohan L. Manocha. Thomas, Springfield, Ill., 1975. xiv, 472 pp. Cloth, \$24.50; paper, \$16.75.

On Economics and Society. Harry G. Johnson. University of Chicago Press, Chicago, 1975. xii, 356 pp. \$12.95.

Optimal Control Theory and Its Applications. Proceedings of a seminar, London, Ontario, Canada, Aug. 1973. Bruce J. Kirby, Ed. Springer-Verlag, New York, 1974. Two vols., illus. Part 1. vi, 426 pp. Part 2. vi, 404 pp. Paper, each vol., \$14.40. Lecture Notes in Economics and Mathematical Systems, vols. 105 and 106.

Organic Chemistry. A Background for the Life Sciences. Gardner W. Stacy. Harper and Row, New York, 1975. xviii, 412 pp., illus. \$12.95. Study guide. iv, 172 pp., illus. Paper, \$3.95.

Organic Syntheses. An Annual Publication of Satisfactory Methods for the Preparation of Organic Chemicals. Vol. 54. Wiley, New York, 1975. xii, 156 pp., illus. \$10.95.

Organic Syntheses via Boranes. Herbert C. Brown. Wiley-Interscience, New York, 1975. xx, 284 pp., illus. \$17.50.

Organometallic Compounds. Methods of Synthesis, Physical Constants and Chemical Reactions. Michael Dub, Ed. Vol. 1, Compounds of Transition Metals. First Supplement, Covering the Literature from 1965 to 1968. Klaus Bauer and Gilbrecht Haller. Springer-Verlag, New York, ed. 2, 1975. xxvi, 1172 pp., illus. \$46.80.

Perfumes, Cosmetics and Soaps. Vol. 1, The Raw Materials of Perfumery. W. A. Poucher. Revised by George M. Howard. Chapman and Hall, London, and Halsted (Wiley), New York, ed. 7, 1975. xii, 382 pp., illus. \$24.

Perspectives on Ocean Policy. Proceedings of a conference, Airlie, Va., Oct. 1974. National Science Foundation, Washington, D.C., 1975 (available from the Superintendent of Documents, Washington, D.C.). x, 436 pp. Paper, \$3.90.

The Phagocytic Cell in Host Resistance. Proceedings of a conference, Winter Park, Fla., Mar. 1974. Joseph A. Bellanti and Delbert H. Dayton, Eds. Raven, New York, 1975. xvi, 348 pp., illus. \$19.75. A Monograph of the National Institute of Child Health and Human Development.

PhD Education in Australia. The Making of Professional Scientists. Australian Academy of Science, Canberra, 1974. 212 pp. Paper, \$A5. Science and Industry Forum Report No. 7.

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MOLECULAR PATHOLOGY edited by Robert A. Good, *Memorial Sloan-Kettering Cancer Center, New York, New York*, and Stacey B. Day and Jorge J. Yunis, *both of the Univ. of Minnesota Medical School, Minneapolis, Minnesota.* (52 Contributors) In this text authors from many areas of research have been brought together to contribute to the understanding of disease at the molecular level. Classical pathologists, biologists, geneticists, immunologists, physiologists, psychiatrists and zoologists have contributed equally to the study of the disease process. This book can also serve as a reference for recent advances in experimental medicine. '75, 888 pp. (6 3/4 x 9 3/4), 259 il., 56 tables, \$67.50

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Plant Biochemistry. D. H. Northcote, Ed. Butterworth, London, and University Park Press, Baltimore, 1974. xii, 288 pp., illus. \$19.50. MTP International Review of Science. Biochemistry, Series One, vol. 11.

Population, Environment, and the Quality of Life. Parker G. Marden and Dennis Hodgson, Eds. Halsted (Wiley), New York, 1975. xiv, 328 pp. Paper, \$4.95.

Preuves en Biologie de Transmutations a Faible Energie. C. Louis Kervran. Maloine, Paris, 1975. 312 pp., illus. Paper, 80 F.

Proceedings of the First National Symposium on Sickle Cell Disease. Washington, D.C., June 1974. John I. Hercules, Alan N. Schechter, William A. Eaton, and Rudolph E. Jackson, Eds. National Institutes of Health, Bethesda, Md., 1974 (available from the Sickle Cell Disease Branch, NIH, Bethesda, Md.). vi, 414 pp. DHEW Publication No. (NIH) 75-723.

Psychology. A Scientific Study of Human Behavior. Lawrence S. Wrightsman and Fillmore H. Sanford. Brooks/Cole, Monterey, Calif., ed. 4, 1975. xxiv, 656 pp., illus. \$13.95.

Quality Control in Microbiology. Proceedings of a symposium, Philadelphia, Nov. 1973. James E. Prier, Josephine T. Bartola, and Herman Friedman, Eds. University Park Press, Baltimore, 1975. xii, 188 pp., illus. \$14.50.

Quantitative Nuclear Cardiography. Richard N. Pierson, Jr., Joseph P. Kriss, Robert H. Jones, and William J. MacIntyre, Eds. Wiley, New York, 1975. x, 290 pp., illus. \$24.50. A Wiley Biomedical-Health Publication.

Systems Analysis and Computing. J. M. Eaton and D. J. Hatter. Elek, London, 1975. viii, 232 pp., illus. Cloth, £5.95; paper, £3.

Thorium. Preparation and Properties. J. F. Smith, O. N. Carlson, D. T. Peterson, and T. E. Scott. Iowa State University Press, Ames, 1975. viii, 386 pp., illus. \$9.95.

Total Parenteral Nutrition. Premises and Promises. H. Ghadimi, Ed. Wiley, New York, 1975. xxiv, 632 pp., illus. \$29.50. Clinical Pediatrics, Maternal and Child Health. A Wiley Biomedical-Health Publication.

Ultrasound and Ballistocardiography in Cardiovascular Research. Proceedings of a meeting, Atlantic City, N.J., Apr. 1973. Jan Baan, Ed. Karger, Basel, 1974. viii, 118 pp., illus. Paper, \$24.75. Bibliotheca Cardiologica, No. 34.

U. S. Energy Policy. Alternatives for Security. Douglas R. Bohi and Milton Russell. Published for Resources for the Future by Johns Hopkins University Press, Baltimore, 1975. x, 132 pp. Paper, \$5.

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What's Wrong with the Mental Health Movement. K. Edward Renner. Nelson-Hall, Chicago, 1975. xii, 220 pp. \$11.

World Energy Conference Survey of Energy Resources. Conférence Mondiale de l'Energie Enquête sur les Ressources Energétiques. United States National Committee of the World Energy Conference, New York, 1974 (available from Engineers Joint Council, 345 E. 47 St., New York). xii, 400 pp. + maps. \$37.50.

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