

and provide a good background for further study.

The second half of the book investigates departures from idealized solids and looks at defect structures, the effect of defects on physical properties, and techniques used to characterize solids. Little more than background and listing of the numerous techniques of chemical and structural characterization are provided. However, the way is paved for succeeding volumes which will deal in detail with several of these subjects.

The book is written from a chemical viewpoint. However, the juxtaposition of thermodynamics and phase equilibria with band theory and many current solid state physics problems should provide solid state chemists and physicists alike with an interesting perspective on their work.

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Books Received

Advanced Mathematical Analysis. Periodic Functions and Distributions, Complex Analysis, Laplace Transform and Applications. Richard Beals. Springer-Verlag, New York, 1973. xii, 230 pp. Paper, \$9.50. Graduate Texts in Mathematics, vol. 12.

Advances in Aerosol Physics. No. 6. V. A. Fedoseev, Ed. Translated from the Russian edition (Kiev, 1972). Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. viii, 186 pp., illus. \$17.50.

Advances in Drug Research. Vol. 7. Alma B. Simmonds, Ed. Academic Press, New York, 1973. viii, 232 pp., illus. \$15.50.

Advances in Radiation Biology. Vol. 4. John T. Lett, Howard Adler, and Max Zelle, Eds. Academic Press, New York, 1974. xii, 436 pp., illus. \$29.50.

Advances in Virus Research. Vol. 18. Max A. Lauffer, Frederik B. Bang, Karl Maramorosch, and Kenneth M. Smith, Eds. Academic Press, New York, 1973. xii, 408 pp., illus. \$26.

The African Origin of Civilization. Myth or Reality. Cheikh Anta Diop. Translated from the French by Mercer Cook. Lawrence Hill, New York, 1974. xviii, 316 pp., illus. Cloth, \$12.95; paper, \$5.95.

Algol 60 Compilation and Assessment. B. A. Wichmann. Academic Press, New York, 1973. viii, 320 pp., illus. \$15.50. A.P.I.C. Studies in Data Processing, No. 10.

Annual Review of Psychology. Vol. 25. Mark R. Rosenzweig and Lyman W. Porter, Eds. Annual Reviews, Palo Alto, Calif., 1974. viii, 544 pp. \$12.

The Art of Learning Medicine. May H. Lesser. Appleton-Century-Crofts (Prentice-

Hall), New York, 1974. xxii, 344 pp., illus. \$38.50.

Aspects of the Greatest Integer Function. Part 1, The Greatest Integer Function in the Domain of the Rational Numbers. Folke Ryde. Almqvist and Wiksell, Stockholm, Sweden, 1973. 110 pp., illus. Sw.kr. 70.

Basic Research in Myology. Proceedings of a congress, Perth, Australia, Nov. 1971. B. A. Kakulas, Ed. Excerpta Medica, Amsterdam, and Elsevier, New York, 1973. Two volumes, illus. Part 1, xii, 698 pp. Part 2, xii, 724 pp. The set, \$98. International Congress Series, Nos. 294 and 295.

Biofeedback. Behavioral Medicine. Lee Birk, Ed. Grune and Stratton, New York, 1974. viii, 210 pp., illus. \$10.75. Reprinted from *Seminars in Psychiatry*, vol. 5, No. 4 (1973).

The Cheetah. The Biology, Ecology, and Behavior of an Endangered Species. Randall L. Eaton. Van Nostrand Reinhold, New York, 1974. xiv, 178 pp., illus. \$12.95. Behavioral Science Series.

Chemical and Biological Basis of Adjuvants. P. Jolles and A. Paraf. Springer-Verlag, New York, 1973. viii, 154 pp., illus. \$18.50. Molecular Biology, Biochemistry and Biophysics, vol. 13.

The Chemistry of Electrode Processes. Ilana Fried. Academic Press, New York, 1974. x, 226 pp., illus. \$13.75.

Chemotherapy under Special Conditions. H. Schonfeld, R.W. Brockman, and F. E. Hahn, Eds. Karger, Basel, 1974 (U.S. distributor, Phiebig, White Plains, N.Y.). viii, 210 pp., illus. \$35.75.

Children in Conflict. A Casebook. Anthony Davis with contributions by Spencer De Vault and John J. Laffey. Wiley, New York, 1974. x, 228 pp. \$10.95.

Chronobiology. Lawrence E. Scheving, Franz Halberg, and John E. Pauly, Eds. Igaku Shoin, Tokyo, 1974. 784 pp., illus. \$40.

Clinical Oncology. A Quantitative Approach. N. M. Emanuel and L. S. Evseenko. Translated from the Russian edition (Moscow, 1970) by N. Kaner. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. viii, 272 pp., illus. \$27.50.

Clinical Psychology. The Study of Personality and Behavior. Sol L. Garfield. Aldine, Chicago, 1974. xiv, 462 pp. Cloth, \$14.95; paper, \$8.95.

Coastal Ecology. Bodega Head. Michael G. Barbour, Robert B. Craig, Frank R. Drysdale, and Michael T. Ghiselin. University of California Press, Berkeley, 1974. xx, 338 pp., illus. \$10.95.

Communications Technology and Social Policy. Understanding the New "Cultural Revolution." George Gerbner, Larry P. Gross, and William H. Melody, Eds. Wiley-Interscience, New York, 1973. xxx, 574 pp., illus. \$17.95.

Comparative Pharmacology. M. J. Michelson, Ed. Pergamon, New York, 1974. Two volumes, illus. + charts. Vol. 1, xxii + pp. 1-518 + indexes. Vol. 2, x + pp. 519-938 + indexes. The set, \$67.50. International Encyclopedia of Pharmacology and Therapeutics, Section 85.

Computer Output Microfilm Systems.

A Guide to Their Design and Installation. Robert F. Gildenberg. Melville (Wiley, New York), Los Angeles, 1974. x, 200 pp., illus. \$10.95.

Computerized Business Systems. An Introduction to Data Processing. Irvine Forkner and Raymond McLeod, Jr. Wiley, New York, 1973. xx, 502 pp., illus. \$12.95.

The Concepts of Human Evolution. Proceedings of a symposium, London, Nov. 1972. S. Zuckerman, Ed. Published for the Zoological Society of London by Academic Press, New York, 1973. xiv, 480 pp., illus. \$29.

Conservation. Archie S. Mossman. Intext Educational Publishers, New York, 1974. xii, 196 pp., illus. Cloth, \$8.50; paper, \$4.50. Intext Series in Ecology.

Contemporary Readings in Biology. Gideon E. Nelson and James D. Ray, Jr., Eds. Wiley, New York, 1974. x, 342 pp., illus. Paper, \$3.95.

Current Topics in Membranes and Transport. Vol. 4. Felix Bronner and Arnost Kleinzeller. Academic Press, New York, 1973. xxvii, 352 pp., illus. \$28.50.

The Department of Health, Education, and Welfare. Rufus E. Miles, Jr. Praeger, New York, 1974. viii, 327 pp. + plates. \$10. Praeger Library of U.S. Government Departments and Agencies, vol. 39.

Digital Computing and Numerical Methods. With Fortran-IV, Watfor, and Watfiv Programming. Brice Carnahan and James O. Wilkes. Wiley, New York, 1973. xiv, 478 pp., illus. \$13.95.

Dislocations and Plastic Deformation. I. Kovács and L. Zsoldos. Translated from the Hungarian edition (Budapest, 1965) by Z. Morlin. Pergamon, New York, 1974. xii, 344 pp., illus. \$10.50. International Series of Monographs in Natural Philosophy, vol. 60.

Dynamic Stratigraphy. An Introduction to Sedimentation and Stratigraphy. Robley K. Matthews. Prentice-Hall, Englewood Cliffs, N.J., 1974. xiv, 370 pp., illus. \$12.95.

The Earth from Space. Johann Bodechtel and Hans-Gunter Gierloff-Emden. Translated from the German edition (Munich, 1969) by Hildegard Mayhew and Lotte Evans. Arco, New York, 1974. 176 pp., illus. \$16.

Embankment-Dam Engineering. Casa-grande Volume. Ronald C. Hirschfeld and Steve J. Poulos, Eds. Wiley-Interscience, New York, 1973. xiv, 454 pp., illus. \$24.95.

Environment Control. Air Conditioning and Refrigeration Theory and Application. Michael K. Weaver and James M. Kirkpatrick. Harper and Row, New York, 1974. x, 582 pp., illus. \$12.95.

Environmental Impact Requirements in the States. NEPA's Offspring. Thaddeus C. Trzyna. Center for California Public Affairs, Claremont, Calif., 1974. viii, 84 pp. Paper, \$6.50.

Environmental Phosphorus Handbook. Edward J. Griffith, Alfred Beeton, Jean M. Spencer, and Dee T. Mitchell, Eds. Wiley-Interscience, New York, 1973. xviii, 718 pp., illus. \$34.95.

Equine Infectious Diseases III. Proceed-

(Continued on page 714)

BOOKS RECEIVED

(Continued from page 690)

ings of a conference, Paris, July 1972. J. T. Bryans and H. Gerber, Eds. Karger, Basel, 1973 (U.S. distributor, Phiebig, White Plains, N.Y.). xx, 558 pp., illus. \$42.25.

Essays in Physics. Vol. 5. G. K. T. Conn and G. N. Fowler, Eds. Academic Press, New York, 1973. x, 224 pp., illus. Paper, \$8.50.

Essentials of Toxicology. Ted A. Loomis. Lea and Febiger, Philadelphia, ed. 2, 1974. viii, 224 pp., illus. \$9.

Estuaries. A Physical Introduction. K. R. Dyer. Wiley-Interscience, New York, 1973. xvi, 140 pp., illus. \$9.95.

Evolution. Charlotte J. Avers. Harper and Row, New York, 1974. x, 322 pp., illus. Paper, \$5.95.

Evolutionary Ecology. Eric R. Pianka. Harper and Row, New York, 1974. xii, 356 pp., illus. \$13.95.

Experiments in Fundamental Concepts of Biology. Gideon E. Nelson and Albert A. Latina. Wiley, New York, ed. 3, 1974. viii, 212 pp., illus. Paper, \$3.95.

The Fine Structure of Algal Cells. John D. Dodge. Academic Press, New York, 1973. xii, 262 pp., illus. \$17.

From the Land and Back. Curtis K. Stadtfeld. Drawings by Franklin McMahon. Scribner, New York, 1974. xx, 202 pp., illus. Paper, \$2.95. Reprint of the 1972 edition.

The Fruit Flies (Tephritidae-Diptera) of Thailand and Bordering Countries. D. Elmo Hardy. Entomology Department, Bernice P. Bishop Museum, Honolulu, Hawaii, 1973. 354 pp., illus. + plates. Cloth, \$12; paper, \$10.50. Pacific Insects Monograph 31.

Fundamental Astronomy. Solar System and Beyond. Franklyn W. Cole. Wiley, New York, 1974. xviii, 476 pp., illus. Paper, \$10.95.

Fundamentals of Organic Chemistry. Richard S. Monson and John C. Shelton. McGraw-Hill, New York, 1974. x, 438 pp., illus. \$10.95.

The Future of Development. Peter Heintz with the assistance of Suzanne Heintz. Huber, Bern, Germany, 1973. 152 pp., illus. Paper, 19 F.

General Chemistry. With introductions by James B. Ifft and John E. Hearst. Freeman, San Francisco, 1974. x, 434 pp., illus. Cloth, \$12; paper, \$6.50. Readings from *Scientific American*.

Grundlagen der Technischen Thermodynamik. Norbert Elsner. Bertelsmann Universitätsverlag, Berlin, Germany, 1973. xii, 660 pp., illus. + charts. DM38.

Handbook of Physiology. Section 7, Endocrinology, Vol. 1, Female Reproductive System, part 1. Roy O. Greep, volume editor. American Physiological Society, Washington, D.C., 1973 (distributed by Williams and Wilkins, Baltimore). viii, 658 pp., illus. \$44.50.

Handbook of Sensory Physiology. Vol. 7. Part 3, Central Processing of Visual Information, part A, Integrative Functions and Comparative Data. Richard Jung, Ed. Springer-Verlag, New York, 1973. xiv, 776 pp., illus. \$101.70.

Health. Jean Mayer, Ed. Van Nostrand, New York, 1974. xii, 532 pp., illus. Paper, \$8.95.

Heredity and Human Affairs. James J. Nagle. Mosby, St. Louis, 1974. xii, 338 pp., illus. \$10.

Human Evolution. An Introduction to Man's Adaptations. Bernard G. Campbell. Aldine, Chicago, ed. 2, 1974. xvi, 470 pp., illus. Cloth, \$12.50; paper, \$7.95.

The Human Lens in Relation to Cataract. Proceedings of a symposium, London, Jan. 1973. Elsevier, New York, 1973. x, 324 pp., illus. \$17.75. Ciba Foundation Symposium, No. 19.

Iconic Communication. W. H. Huggins and Doris R. Entwisle. Johns Hopkins University Press, Baltimore, 1974. xiv, 172 pp., illus. \$8.50.

Identification and System Parameter Estimation. Proceedings of a symposium, The Hague, June 1973. P. Eykhoff, Ed. North-Holland, Amsterdam, and Elsevier, New York, 1973. Two volumes, illus. Vol. 1, xxiv + pp. 1-534. Vol. 2, xiv + pp. 535-1180. \$68.50.

Immunocytochemistry. Ludwig A. Sternberger. Prentice-Hall, Englewood Cliffs, N.J., 1974. x, 246 pp., illus. \$11.95. Prentice-Hall Foundations of Immunology Series.

An Index to Biographical Fragments in Unspecialized Scientific Journals. E. Scott Barr. University of Alabama Press, University, 1974. x, 294 pp. \$12.50.

Injuries of the Brain and Spinal Cord and Their Coverings. Emanuel H. Feiring,

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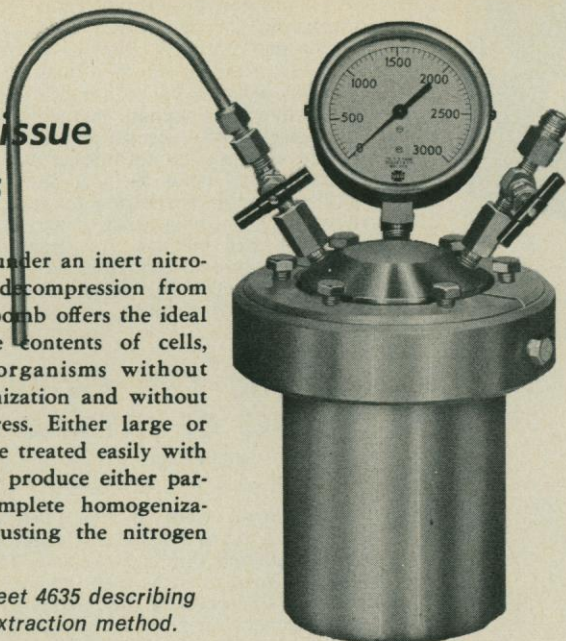
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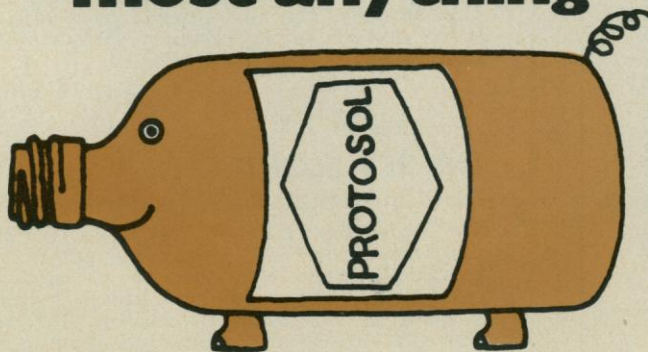
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Ed. Springer-Verlag, New York, ed. 5, 1974. xii, 962 pp., illus. \$28.50.

Inorganic Chemistry of the Main-group Elements. Vol. 1. A Review of the Literature Published between July 1971 and September 1972. C. C. Addison, senior reporter. Chemical Society, London, 1973. xii, 444 pp., illus. £9. Specialist Periodical Reports.

Interfaces in Metal Matrix Composites. Arthur G. Metcalfe, Ed. Academic Press, New York, 1974. xiv, 422 pp., illus. \$29. Composite Materials, vol. 1.

Introduction to Chemistry for Biology Students. George I. Sackheim. Educational Methods, Chicago, ed. 2, 1974. viii, 136 pp., illus. Paper, \$2.95. Programmed Biology Series.

Introduction to Computer Concepts. Hardware and Software. Larry W. Dickey. Prentice-Hall, Englewood Cliffs, N.J., 1974. x, 342 pp., illus. \$11.95.

Invertebrate Endocrinology and Hormonal Heterophyly. Walter J. Burdette, Ed. Springer-Verlag, New York, 1974. xviii, 438 pp., illus. \$22.80.

Ion Implantation. G. Dearnaley, J. H. Freeman, R. S. Nelson, and J. Stephen. North-Holland, Amsterdam, and Elsevier, New York, 1973. xvi, 802 pp., illus. \$79. Defects in Crystalline Solids, vol. 8.

The Ionisation of Carbon Acids. J. R. Jones. Academic Press, New York, 1973. viii, 236 pp., illus. \$13.50.

The Kirlian Aura. Photographing the Galaxies of Life. Stanley Krippner and Daniel Rubin, Eds. Anchor (Doubleday), New York, 1974. 208 pp., illus. Paper, \$3.95.

Locked Rooms and Open Doors. Diaries and Letters of Anne Morrow Lindbergh. 1933-1935. Harcourt Brace Jovanovich, New York, 1974. xxvi, 352 pp. + plates. \$7.95.

Low Energy Electron Collisions in Gases. Swarm and Plasma Methods Applied to Their Study. Aldo Gilardini. Wiley-Interscience, New York, 1973. xiv, 496 pp., illus. \$24.95. Wiley Series in Plasma Physics.

The Macrophage. A Review of Ultrastructure and Function. Ian Carr. Academic Press, New York, 1973. viii, 154 pp. + plates. \$14.50.

The Major Ordeals of the Mind. And the Countless Minor Ones. Henri Michaux. Translated from the French edition. (Paris, 1966) by Richard Howard. Harcourt Brace Jovanovich, New York, 1974. vi, 170 pp. \$6.95.

Man and the Computer. John G. Kemeny. Scribner, New York, 1974. viii, 152 pp. Paper, \$2.45. Reprint of the 1972 edition.

Man's Finite Earth. Russell O. Utgard and Garry D. McKenzie, Eds. Burgess, Minneapolis, 1974. xiv, 368 pp., illus. \$4.95.

Marine Archaeology. Proceedings of a symposium, Bristol, England, Apr. 1971. D. J. Blackman, Ed. Archon Books (Shoe String Press), Hamden, Conn., 1973. x, 522 pp., illus. \$30. Colston Papers, No. 23.

Medical Research Systems in Europe. Proceedings of a symposium, London, Mar. 1973. Elsevier, New York, 1973. viii, 336 pp., illus. \$17.50. Ciba Foundation Symposium, No. 21.

Men, Beasts, and Gods. A History of Cruelty and Kindness to Animals. Gerald Carson. Scribner, New York, 1974. xii, 268 pp. + plates. Paper, \$2.95. Reprint of the 1972 edition.

Morphology and Sediments of the Gulf of St. Lawrence. D. H. Loring and D. J. G. Nota. Fisheries and Marine Service, Ottawa, Canada, 1973 (available as Fs 94-182 from Information Canada, Ottawa K1a OS9). xiv, 148 pp., illus. + charts + maps. Paper, \$5. Bulletin 182 of the Fisheries Research Board of Canada.

Natural Regions of the United States and Canada. Charles B. Hunt. Freeman, San Francisco, 1974. xiv, 726 pp., illus. \$14.95. Series of Books in Geology. Second edition of *Physiography of the United States*.

Nature of Earth Materials. Anthony C. Tonnissen. Prentice-Hall, Englewood Cliffs, N.J., 1974. viii, 440 pp., illus. \$11.95.

New Protein Foods. Vol. 1A, Technology. Aaron M. Altschul, Ed. Academic Press, New York, 1974. xiv, 512 pp., illus. \$32. Food Science and Technology Series.

Ocean Engineering Wave Mechanics. Michael E. McCormick. Wiley-Interscience, New York, 1973. xxii, 180 pp., illus. \$12.50. Ocean Engineering: A Wiley Series.

The Official Associated Press Almanac 1974. Dan Perkes and Laurence Urdang, Eds. Hammond Almanac, Maplewood, N.J., 1974. 1040 pp., illus. \$5.95.

The Pacific in Transition. Geographical Perspectives on Adaptation and Change. Harold Brookfield, Ed. St. Martin's, New York, 1974. xx, 332 pp., illus. + plates. \$17.95.

Particles, Sources, and Fields. Vol. 2. Julian Schwinger. Addison-Wesley, Reading, Mass., 1973. xiv, 460 pp. \$18.50.

The Persecuted Drug. The Story of DMSO. Pat McGrady, Sr. Doubleday, New York, 1973. viii, 372 pp. \$7.95.

pH and pION Control in Process and Waste Streams. F. G. Shinsky. Wiley-Interscience, New York, 1973. xviii, 260 pp., illus. \$17.95. Environmental Science and Technology Series.

Pharmaceutical Calculations. Joel L. Zatz. Wiley-Interscience, New York, 1973. xii, 312 pp. Paper, \$7.95.

Pharmacology of Gastrointestinal Motility and Secretion. Pamela Holton, Ed. Pergamon, New York, 1974. Two volumes, illus. Vol. 1, xii + pp. 1-360 + index. Vol. 2, xii + pp. 361-666 + index. The set, \$54. International Encyclopedia of Pharmacology and Therapeutics, Section 39A.

Phase Transitions—1973. Proceedings of a conference, University Park, Pa., May 1973. H. K. Henisch, R. Roy, and L. E. Cross, Eds. Pergamon, New York, 1974. vi, 448 pp., illus. \$24.

Physical Geology. Richard Foster Flint and Brian J. Skinner. Wiley, New York, 1974. x, 498 pp., illus. + plates. \$12.95.

Physico-chemical Properties of Nucleic Acids. Vol. 3, Intra- and Intermolecular Interactions, Radiation Effects in DNA Cells, and Repair Mechanisms. J. Duchesne, Ed. Academic Press, New York, 1973. xvi, 220 pp., illus. \$14.

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Metabolic Bone Disease. Howard Rasmussen and Philippe Bordier. Williams and Wilkins, Baltimore, 1974. xii, 364 pp., illus. + microfiche. \$21.50.

Pictorial Astronomy. Dinsmore Alter, Clarence H. Clemminshaw, and John G. Phillips. Crowell, New York, ed. 4, 1974. viii, 328 pp., illus. + plates. \$10.

Planetfall. Martin Caidin. Coward, McCann and Geoghegan, New York, 1974. 250 pp. + plates. \$7.95.

Plasma Astrophysics. S. A. Kaplan and V. N. Tsytovich. Translated from the Russian by D. ter Haar. Pergamon, New York, 1974. xiv, 302 pp., illus. \$28.50. International Series of Monographs in Natural Philosophy, vol. 59.

Polyvinyl Alcohol. Properties and Applications. C. A. Finch. Wiley-Interscience, New York, 1973. xviii, 622 pp., illus. \$35.

Posterior and Predictive Densities for Simultaneous Equation Models. J.-F. Richard. Springer-Verlag, New York, 1973. vi, 226 pp., illus. Paper, \$7.70. Lecture Notes in Economics and Mathematical Systems, vol. 90.

Practical Clinical Enzymology. Techniques and Interpretations and Biochemical Profiling. Paul L. Wolf, Dorothy Williams, and Elisabeth Von der Muehl. Wiley-Interscience, New York, 1973. xii, 580 pp., illus. \$15.50. Stanford Series on Methods and Techniques in the Clinical Laboratory.

Prevues en Géologie et Physique de Transmutations à Faible Energie. C. Louis Kervran. Maloine S.A. éditeur, Paris, 1973. 186 pp., illus. Paper, 49 F.

Proceedings of the Fourth Lunar Science Conference, Houston, Texas, March 5-8, 1973. Pergamon, New York, 1974. Three volumes, illus. + plates. Vol. 1, Mineralogy and Petrology. xiv + pp. 1-1080. Vol. 2, Chemical and Isotope Analysis. Organic Chemistry. xiv + pp. 1081-2274. Vol. 3, Physical Properties. xiv + pp. 2275-3290 + indexes. \$100. *Geochimica et Cosmochimica Acta*, Supplement 4.

Process Optimization. With Applications in Metallurgy and Chemical Engineering. W. Harmon Ray and Julian Szekely. Wiley-Interscience, New York, 1973. xii, 372 pp., illus. \$19.95.

Processes and Phenomena of Social Change. Gerald Zaltman and 19 others. Wiley-Interscience, New York, 1973. xiv, 464 pp. \$13.95.

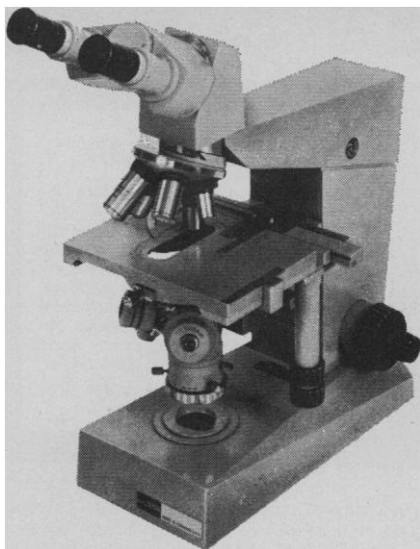
A Programmed Approach to Human Genetics. Allen Vegotsky and Cynthia A. White. Wiley, New York, 1974. xii, 154 pp., illus. Paper, \$3.95.

Prologue to Modernity. Early Modern Europe. James D. Hardy, Jr. Wiley, New York, 1974. x, 288 pp., illus. \$8.95.

Propagation of Visible and Infrared Radiation in the Atmosphere. V. E. Zuev. Translated from the Russian edition (Moscow, 1970) by D. Lederman. P. Greenberg, Transl. Ed. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. xii, 406 pp., illus. \$32.50.

Properties of Materials for Electrical Engineers. K. J. Pascoe. Wiley, New York, 1974. xii, 324 pp., illus. \$15.95.

Psychology and Race. Peter Watson, Ed. Aldine, Chicago, 1974. 492 pp. Cloth, \$12.50; paper, \$4.95.



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Psychosocial Pharmacy. The Synthetic Society. Fred B. Gable. Lea and Febiger, Philadelphia, 1974. x, 248 pp. Paper, \$6.

Quantitative Thin Layer Chromatography. Joseph C. Touchstone, Ed. Wiley-Interscience, New York, 1973. xvi, 330 pp., illus. \$14.95.

Réflexes, Emotions, Instincts. Jean Paulus. Dessart, Brussels, Belgium, 1973. iv, 184 pp. 36 F. Manuels et Traités de Psychologie et de Sciences Humaines.

School-Age Mothers. Problems, Programs, and Policy. Lorraine V. Klerman and James F. Jekel. Linnet Books (Shoe String Press), Hamden, Conn., 1973. xvi, 152 pp. \$6.

Semiconductor Physics. Karlheinz Seeger. Springer-Verlag, New York, 1973. xvi, 514 pp., illus. Paper, DM60. Springer Study Edition Physics.

Seminar: Die Entstehung von Klassengesellschaften. H. von Klaus Eder, Ed. Suhrkamp, Frankfurt, Germany, 1973. 376 pp., illus. Paper, DM12.

Sensory Processes. The New Psychophysics. Lawrence E. Marks. Academic Press, New York, 1974. xii, 334 pp., illus. \$17.50.

7th European Conference on Microcirculation. Part 1, Methodology in Microcirculation. Part 2, Clinical Aspects of Microcirculation. Proceedings of a conference, Aberdeen, Scotland, 1972. J. Ditzel and D. H. Lewis, Eds. Karger, Basel, 1973 (U.S. distributor, Phiebig, White Plains, N.Y.). Part 1, xvi, 548 pp., illus. \$104. Part 2, xvi, 548 pp., illus. \$104. Bibliotheca Anatomica, Nos. 11 and 12.

Simple Astronomy. Iain Nicholson. Illustrated by Don Pottinger. Scribner, New York, 1974. 64 pp., illus. \$6.95.

Superconducting Magnet Systems. H. Brechna. Springer-Verlag, New York, 1973. xii, 590 pp., illus. \$65.60. Technische Physik in Einzeldarstellungen, vol. 18.

Symmetry in Chemical Theory. Application of Group Theoretical Techniques to the Solution of Chemical Problems. John P. Fackler, Jr., Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1973. xvi, 508 pp., illus. \$25. Benchmark Papers in Inorganic Chemistry.

Taming the Last Frontier. A Prescription for the Urban Crisis. C. W. Griffin, Jr. Pitman, New York, 1974. xii, 260 pp. \$8.95.

Technological Shortcuts to Social Change. Amitai Etzioni and Richard Remp. Russell Sage Foundation, New York, 1973. viii, 236 pp., illus. \$8.95.

Thinking Metric. Thomas F. Gilbert and Marilyn B. Gilbert. Wiley, New York, 1973. xiv, 144 pp., illus. Paper, \$2.95. Self-Teaching Guides.

Traité des Hallucinations. Henri Ey. Masson et Cie, Paris, 1973. Two volumes, illus. Vol. 1, xx + pp. 1-710. Vol. 2, x + pp. 711-1544. The set, 440 F.

Vector Analysis in Chemistry. Donald D. Fitts. McGraw-Hill, New York, 1973. xiv, 150 pp., illus. \$9.95. McGraw-Hill Series in Advanced Chemistry.

Vibration Analysis for Electronic Equipment. Dave S. Steinberg. Wiley-Interscience, New York, 1973. xxii, 468 pp., illus. \$24.95.



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