The Mathematical Apparatus for Quantum-Theories: Based on the Theory of Boolean Lattices. Otton Martin Nikodym. Springer-Verlag, New York, 1966. 964 pp. $36.

Mendelian Inheritance in Man. Catalogs of autosomal dominant, autosomal recessive, and X-linked phenotypes. Victor A. McKusick. Johns Hopkins Press, Baltimore, 1966. 364 pp. $8.

Modern Microscopy or Seeing the Very Small. V. E. Cosslett. Cornell Univ. Press, Ithaca, N.Y., 1966. 160 pp. Illus. $5.

Molecular Organization and Biological Function. John M. Allen, Ed. Harper and Row, New York, 1966. 255 pp. Illus. Paper, $5; cloth, $9. Eight papers.

Molecular Spectra and Molecular Structure. vol. 3, *Electronic Spectra and Electronic Structure of Polyatomic Molecules*. Gerhard Herzberg. Van Nostrand, Princeton, N.J., 1966. 763 pp. Illus. $20.

Multiple Integrals in the Calculus of Variations. Charles B. Morrey, Jr. Springer-Verlag, New York, 1966. 518 pp. $24.

On Invariants and the Theory of Numbers. Leonard Eugene Dickson. Dover, New York, 1966. 120 pp. Paper, $1.50. Reprint, 1914 edition.

On-Line Computing: Time-Shared Man-Computer Systems. Walter J. Karplus, Ed. McGraw-Hill, New York, 1967. 348 pp. Illus. $14.50.

Organic Synthesis. vol. 46. E. J. Corey, Ed. Wiley, New York, 1966. 156 pp. Illus. $5.25.

The Palace of Nestor at Pylos in Western Messenia. vol. 1, pts. 1 and 2, *The Buildings and Their Contents*. Carl W. Blegen and Marion Rawson. Princeton Univ. Press, Princeton, N.J., 1966. 470 pp. Illus. Plates. $40.

People of the Noatak. Claire Fejes. Knopf, New York, 1966. 380 pp. Illus. $6.95.

Phonons in Perfect Lattices and in Lattices with Point Imperfections. R. W. H. Stevenson, Ed. Plenum, New York, 1966. 462 pp. Illus. $22.50. Fifteen lectures given at the Scottish Universities' Summer School, 1965.

Phylo-Genetic Systematics. Willi Hennig. Translated from the German by D. Dwight Davis and Rainer Zangerl. Univ. of Illinois Press, Urbana, 1966. 271 pp. Illus. $12.50.

Physical Optics. D. V. Skobel'tsyn, Ed. Translated from the Russian edition (Moscow, 1965). Consultants Bureau, New York, 1966. 280 pp. Illus. Paper, $27.50.

Miscellaneous Publications

U.S. Geological Survey. *Bulletin: No. 1185-C*, "The uraniferous zirconium deposits of the Poços de Caldas Plateau, Brazil," Gene E. Tolbert (28 pp., maps, 70¢); *No. 1198-E*, "Geochemical reconnaissance in the Pequop Mountains and Wood Hills, Elko County, Nevada," R. L. Erickson, A. P. Marranzino, Uteana Oda, and W. W. Janes (20 pp., maps); *No. 1198-F*, "Phytoecology of a greenstone habitat at Eagle, Alaska," Hansford T. Shacklette (36 pp., 20¢); *No. 1214-E*, "Element distribution in some shelf and eugeosynclinal black shales," James D.

Vine (31 pp., 20¢); *No. 1220*, "Terrestrial impact structures—a bibliography," Jacquelyn H. Freeberg (91 pp., map, 70¢); *No. 1221-C*, "Geology of the Florida quadrangle, Puerto Rico," Arthur E. Nelson and W. H. Monroe (22 pp., maps); *No. 1222-A*, "Geology and mineral deposits of the Mosheim and Johnson anticlines, Greene County, Tennessee," Arnold L. Brokaw, John C. Dunlap, and John Rodgers (21 pp., maps); *No. 1222-B*, "Geology of the northwest quarter of the Anaconda quadrangle, Deer Lodge County, Montana," Alexander A. Wanek and C. S. Venable Barclay (28 pp., maps); *No. 1222-C*, "Geology and mineral deposits of the Powell River area, Claiborne and Union Counties, Tennessee," Arnold L. Brokaw, John Rodgers, Deane F. Kent, Robert A. Laurence, and Charles H. Behre, Jr. (56 pp., maps); *No. 1222-D*, "Jasperoids of the Lake Valley mining district, New Mexico," E. J. Young and T. G. Lovering (27 pp., 15¢); *No. 1223*, "Nickel deposits of North America," H. R. Cornwall (62 pp., 25¢); *No. 1224-G*, "The Yakima Basalt and Ellensburg formation of south-central Washington," James W. Bingham and Maurice F. Grolier (15 pp., 10¢); *No. 1230-F*, "Mineral resources of the Sycamore Canyon Primitive Area, Arizona," Lyman C. Huff, Elmer Santos, and R. G. Raabe (19 pp., maps, 50¢); *No. 1232*, "Bibliography of North American Geology, 1962," (834 pp., $2.50); *Professional Paper No. 272-G*, "Evaporation study in a humid region, Lake Michie, North Carolina," J. F. Turner, Jr. (150 pp., 20¢); *No. 302-D*, "Micropaleontology of the Mesozoic rocks of northern Alaska," Harlan R. Bergquist (135 pp., maps); *No. 341-E*, "Geology and mineral resources of the Monlevade and Rio Piracicaba quadrangles, Minas Gerais, Brazil," Robert G. Reeves (58 pp., maps); *No. 341-F*, "Geology and mineral resources of the Pico de Itabirito district, Minas Gerais, Brazil," Roberts M. Wallace (68 pp., maps); *No. 352-G*, "Channel and hillslope processes in a semiarid area, New Mexico," Luna B. Leopold, William W. Emmett, and Robert M. Myrick (253 pp., 50¢); *No. 398-A*, "Tertiary stratigraphy and paleobotany of the Cook Inlet region, Alaska," Jack A. Wolfe, D. M. Hopkins, and Estella B. Leopold (29 pp., map, 70¢); *No. 422-H*, "River meanders—theory of minimum variance," Walter B. Langbein and Luna B. Leopold (15 pp., 20¢); *No. 422-I*, "An approach to the sediment transport problem from general physics," R. A. Ragnold (37 pp., 35¢); *No. 440-W*, "Data of Geochemistry: Chemistry of the iron-rich sedimentary rocks," Harold L. James (61 pp., 45¢); *No. 448-F*, "Low-flow characteristics of streams in the Mississippi embayment in northern Arkansas and in Missouri," Paul R. Speer, Marion S. Hines, M. E. Janson, and others (25 pp., maps); *No. 462-I*, "Summary of alluvial channel data from flume experiments, 1956-61," H. P. Guy, D. B. Simons, and E. V. Richardson (96 pp., 70¢); *No. 485-B*, "Throughfall for summer thunderstorms in a juniper and pinyon woodland, Cibecue Ridge, Arizona," M. R. Collings (13 pp., 20¢); *No. 486-C*, "Hydrologic regimen of Salton Sea, California," Allen G. Hely, G. H. Hughes, and Burdge Irelan (32 pp., 30¢); *No.*

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