

scribed and discussed in the present edition, but the accounts of many times that number of other birds have also been revised in keeping with new data accumulated since the book was first published. The nomenclature throughout has been revised where necessary to conform with the latest edition of the *Check-list of North American Birds* (American Ornithologists' Union, 1957). It seems obvious that this fine volume will continue to be useful.

Birds of Hawaii is a new printing of a book first published in 1944; it has been out of print for a long time and, consequently, was difficult and costly to obtain. When Hawaii became a state, it was felt that the occasion justified publishing a revision of the only modern compendium and manual for studying the bird life of the new state. The chief alterations in this printing are the addition of a handy list of all the changes made since 1944 in the classification and nomenclature of the birds and the replacement of some of the less satisfactory illustrations found in the original printing. If and when a new edition is published, I hope it will have better color plates. The ones in the present volume are not good enough for a state bird book; the text is far better than the plates.

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New Books

Mathematics, Physical Sciences, and Engineering

Alluvial Prospecting and Mining. S. V. Griffith. Pergamon, New York, ed. 2, 1960. 255 pp. Illus. \$7.50.

Annual Review of Nuclear Science. vol. 10. Emilio Segrè, Ed. Annual Reviews, Palo Alto, Calif., 1960. 624 pp. Illus. \$7. Contains 15 articles written by 22 contributors, including articles by F. Reines on neutrino interactions, H. Bradner on bubble chambers, J. G. Beckerley on methods for subsurface prospecting, and R. C. Thompson and J. B. Storer and D. Grahn on vertebrate radiobiology.

Automation. Its impact on business and people. Walter Buckingham. Harper, New York, 1961. 206 pp. \$4.50.

Axiomatics of Classical Statistical Mechanics. Rudolf Kurth. Pergamon, New York, 1960. 190 pp. Illus. \$7.50.

Basic Mathematics of Science and Engineering. Reuben E. Wood. Sigma Press, Washington, D.C., 1960. \$2.50.

Cermets. J. R. Tinklepaugh and W. B. Crandall, Eds. Reinhold, New York; Chapman and Hall, London, 1960. 245 pp. Illus. \$9.50.

Combinatorial Analysis. vol. 10, Proceedings of Symposia in Applied Mathematics. American Mathematics Soc. Providence, R.I., 1960. 317 pp. Illus.

Comprehensive Analytical Chemistry. vol. 1B, *Classical Analysis*. Cecil L. Wilson and David W. Wilson, Eds. Elsevier, Amsterdam, 1960 (order from Van Nostrand, Princeton, N.J.). 900 pp. Illus. \$30.

Contributions to the Theory of Nonlinear Oscillations. vol. 5. L. Cesari, J. LaSalle, and S. Lefschetz. Princeton Univ. Press, Princeton, N.J., 1960. 296 pp. \$5.

Crystal Structures. vol. 5. Ralph W. G. Wyckoff. Interscience, New York, 1960 (not folioed). Chapters 14 and 15 and the "Index to organic compounds."

Electromagnetic Fields and Waves. Robert V. Langmuir. McGraw-Hill, New York, 1961. 236 pp. Illus. \$9.75.

Electronics for Children. Gabriel Reuben. Sterling, New York, 1960. 88 pp. Illus. \$2.50.

Éléments de Physique Nucléaire. Daniel Blanc and Georges Ambrosino. Masson, Paris, 1960. 238 pp. Illus. NF. 30.

Fast Reactor Cross Sections. A study leading to a 16 group set. S. Yiftah, D. Okrent, and P. A. Moldauer. Pergamon, New York, 1960. 135 pp. Illus. \$5.

Foundations of Geometry. Euclidean and Bolyai-Lobachevskian geometry, projective geometry. Karol Borsuk and Wanda Szmielew. North-Holland, Amsterdam; Interscience, New York, 1960. 444 pp. \$12.

From Theory to Practice in Soil Mechanics. Selections from the writings of Karl Terzaghi. L. Bjerrum, A. Casagrande, R. B. Peck, and A. W. Skempton. Wiley, New York, 1960. 433 pp. \$12. Contains a bibliography and "contributions on [Terzaghi's] life" by Bjerrum *et al.*

Fundamental Physics. Jay Orear. Wiley, New York, 1960. 1961. 395 pp. Illus. \$6.75.

Fundamentals of Aerodynamic Heating. Robert Wesley Truitt. Ronald, New York, 1960. 269 pp. Illus. \$10. From the preface: "This book is an introduction to the subject . . . developing . . . the theoretical background necessary to a fundamental understanding of laminar and turbulent boundary layers and their relation to skin friction and heat transfer." Truitt is professor and head of the department of aeronautical engineering at Virginia Polytechnic Institute.

Handbook of Textile Testing and Quality Control. Elliot B. Grover and D. S. Hamby. Textile Book Publishers, Interscience, New York, 1960. 620 pp. Illus. \$17.50.

How To Use Algebra in Everyday Life. By the editors of the Sterling Publishing Co. Sterling, New York, 1960. 253 pp. Illus. \$3.95.

Hydrodynamics. A study in logic, fact and similitude. Garrett Birkhoff. Princeton Univ. Press, Princeton, N.J., rev. ed., 1960. 196 pp. Illus. \$6.50.

Inorganic Chemistry. Jacob Kleinberg, William J. Argersinger, Jr., and Ernest Griswold. Heath, New York, 1960. 688 pp. Illus. \$10.75.

Inorganic Syntheses. vol. 6. Eugene G. Rochow, Ed. McGraw-Hill, New York, 1960. 283 pp. \$7.75.

An Introduction to Astronomy. Robert H. Baker. Van Nostrand, Princeton, N.J., ed. 6, 1961. 372 pp. Illus. \$5.50.

Introduction to Atomic and Nuclear Physics. Otto Oldenberg. McGraw-Hill, New York, ed. 3, 1961. 393 pp. Illus. \$7.95.

An Introduction to Celestial Mechanics. Theodore E. Sterne. Interscience, New York, 1960. 217 pp. Illus. Cloth, \$4.50; paper, \$2.50.

Introduction to Ceramics. W. D. Kingery. Wiley, New York, 1960. 799 pp. Illus. \$15.

Introduction to Nuclear Science. Alvin Glassner. Van Nostrand, Princeton, N.J., 1960. 223 pp. Illus. \$3.75.

Introduction to Quantum Mechanics. Robert H. Dicke and James P. Wittke. Addison-Wesley, Reading, Mass., 1960. 380 pp. Illus. \$8.75.

Lead Isotopes in Geology. R. D. Russell and R. M. Farquhar. Interscience, New York, 1960. 251 pp. Illus. \$9.

Lectures on Differential and Integral Equations. Kosaku Yosida. Interscience, New York, 1960. 230 pp. \$7. The English edition, prepared by Shigeharu Harada, is a translation of a volume originally published in the series "Iwanami Zensho."

Linear Systems Analysis. An introduction to the analysis of discrete-parameter time-invariant linear systems. Paul E. Pfeiffer. McGraw-Hill, New York, 1961. 555 pp. Illus. \$12.50.

Mechanical Waveguides. The propagation of acoustic and ultrasonic waves in fluids and solids with boundaries. Martin Redwood. Pergamon, New York, 1960. 309 pp. Illus. \$9.

Modern Factor Analysis. Harry H. Harman. Univ. of Chicago Press, Chicago, Ill., 1960. 485 pp. Illus. \$10.

New Mathematics. A unified course for secondary schools. vol. 2. K. S. Snell and J. B. Morgan. Cambridge Univ. Press, New York, 1960. 320 pp. Illus. \$2.25.

Organic Electronic Spectral Data. vol. 1, 1946-1952. Mortimer J. Kamlet, Ed. vol. 2, 1953-1955. Herbert E. Ungnade, Ed. Interscience, New York, 1960. vol. 1, 1222 pp., \$25 (subscription price); \$28.50. vol. 2, 929 pp., \$17.50. (subscription price); \$15. From the preface material: "In order to be included, the data had to satisfy the following minimum requirements: The investigated compound must be sufficiently pure to give satisfactory analyses and definable by a molecular formula. The solvent or phase should be stated and the spectral data complete enough so that wavelengths of maximal absorption and molar absorptivities could be computed even if they were not stated in the original publication. Later, it was decided to include data for which no solvent was given, provided spectral data with solvents did not exist for such compounds." Volumes 3 and 4 are scheduled for publication.

Oxosteroids. The use of phenolic hydrazides for detection, characterization, and estimation. Bernard Camber. Lewis, London, 1960. 79 pp. Illus. 12s. 6d.

Physical Methods of Organic Chemistry. vol. 1, pt. 4 of *Technique of Organic Chemistry*. Arnold Weissberger, Ed. Interscience, New York, ed. 3, 1960. 1081 pp. Illus. \$26.