

with radiochemistry, however, but summarizes the definitive information which is now available about specific polonium compounds. Since the advent of nuclear reactors it is now feasible to prepare visible quantities of Po so the information presented is considerably more reliable than much of the old literature which was necessarily based on tracer-level studies. (5) "The Use of Nuclear Magnetic Resonance in Inorganic Chemistry" by E. L. Muetterties and W. D. Phillips, 62 pages, 139 references. The rapidly expanding literature into 1961 for n.m.r. applications to inorganic systems is reviewed. Limitations and pitfalls of the techniques are emphasized in discussions concerning chemical shifts and coupling constants, stereochemistry, and exchange phenomena. Applications to solids are discussed only briefly. (6) "Oxide Melts" by J. D. Mackenzie, 26 pages, 65 references. This final brief chapter deals with a correlation of the physical properties, viscosity, electrical conductance, expansivity, etc., at high temperatures in various molten oxide systems with the "structural" type, *i.e.*, molecular, ionic, or network liquids. Both pure component and binary borate and silicate systems are discussed.

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### BOOKS RECEIVED

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- E. A. V. EBSWORTH. "Volatile Silicon Compounds." The Macmillan Company, 60 Fifth Avenue, New York, N. Y. 1963. v + 179 pp. \$6.38.
- N. P. GALKIN, A. A. MAIOROV, and U. D. VERYATIN. "The Technology of the Treatment of Uranium Concentrates." The Macmillan Company, 60 Fifth Avenue, New York, N. Y. 1963. xiv + 204 pp. \$6.38.
- C. T. MORTIMER. "Reaction Heats and Bond Strengths." Addison-Wesley Publishing Company, Inc., Reading, Mass. 1963. xii + 230 pp. \$5.00.
- INGVAR LINDQVIST. "Inorganic Adduct Molecules of Oxo-Compounds." Academic Press, Inc., 111 Fifth Avenue, New York 3, N. Y. 1963. vi + 129 pp. \$6.50.
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- L. F. FOWLER, R. D. EANES, and T. J. KEHOE. "Analysis Instrumentation, 1963." Plenum Press, Inc., 227 West 17th Street, New York 11, N. Y. 1963. x + 261 pp. \$12.50.
- NOAH F. JOHNSON, EUGENE EICHLER, and G. DAVIS O'KELLEY. "Nuclear Chemistry (Technique of Inorganic Chemistry, Vol. II)." John Wiley and Sons, Inc., 605 Third Avenue, New York 16, N. Y. 1963. xiii + 202 pp. \$8.00.
- ERICH KRELL (E. C. LUMB, Editor). "Handbook of Laboratory Distillation." American Elsevier Publishing Company, Inc., 52 Vanderbilt Avenue, New York 17, N. Y. 1963. x + 561 pp. \$18.00.
- H. ELMER THOMAS. "German-English Dictionary of Glass, Ceramics and Allied Sciences." John Wiley and Sons, Inc., 605 Third Avenue, New York 16, N. Y. 1963. viii + 304 pp. \$15.00.
- C. F. BELL and K. A. K. LOTT. "Modern Approach to Inorganic Chemistry." Butterworths, Inc., 7235 Wisconsin Avenue, Washington 14, D. C. 1963. iii + 293 pp. \$8.95.
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- HAYM KRUGLAK and JOHN T. MOORE. "Basic Mathematics for the Physical Sciences." McGraw-Hill Book Company, Inc., 330 West 42nd Street, New York 36, N. Y. 1963. xi + 354 pp.
- F. ALBERT COTTON, Editor. "Progress in Inorganic Chemistry." Vol. 5. John Wiley and Sons, Inc., 605 Third Avenue, New York 16, N. Y. 1963. 464 pp.
- M. STACEY, J. C. TATLOW, and A. G. SHARPE, Editors. "Advances in Fluorine Chemistry." Vol. 3. Butterworths, Inc., 7235 Wisconsin Avenue, Washington, D. C. 1963. vi + 281 pp. \$9.95.
- Gmelins Handbook of Inorganic Chemistry, System No. 52, Chromium, Part B. Verlag Chemie, GMBH, Weinheim/Bergstrasse, West Germany. 1962. iv + lxxix + 942 pp., 74 graphs. \$179.00.
- Gmelins Handbook of Inorganic Chemistry, System No. 34, Mercury, Part A, Section 2. Verlag Chemie, GMBH, Weinheim/Bergstrasse, West Germany. 1962. iv + xi + 709 pp., 285 graphs. \$133.50.
- Gmelins Handbook of Inorganic Chemistry, System No. 9, Sulfur, Part B, Section 3. Verlag Chemie, GMBH, Weinheim/Bergstrasse, West Germany. 1963. iv + xlii + 745 pp., 245 graphs, separate pocket with 9 graphs. \$153.00.

## Additions and Corrections

1962, Volume 1

E. L. Muetterties and V. D. Aftandilian: Chemistry of Boranes. IV. Phosphine Derivatives of  $B_{10}H_{14}$  and  $B_9H_{15}$ .

Page 732. In column 1, line 4 of the last paragraph, 1330  $cm^{-1}$  should read 2330  $cm^{-1}$ .—E. L. MUETTERTIES.

1963, Volume 2

Fausto Calderazzo and Sergio Bacciarelli. The Cation Dicyclopentadienyldicarbonylvanadium(III).

Page 722. In column 2, line 7, 0.84 g. of  $I_2$  (3.3 mg.-atoms) should read 0.84 g. of  $I_2$  (3.3 mmoles). In Table I,  $I_2$ , mg.-atoms added should read  $I_2$ , mmoles added. All the figures were correctly calculated as mmoles of  $I_2$ .—FAUSTO CALDERAZZO.