

Book Review

Calcium, Teil B Lieferung 3, System-Nummer 28, 8 Auflage, Gmelins Handbuch der Anorganischen Chemie. [Calcium, Part B Section 3, System Number 28, 8th Edition, Gmelin's Handbook of Inorganic Chemistry.] Verlag Chemie, G.m.b.H., Weinheim/Bergstrasse. 1961. lxii + 912 pp. 17 × 24.5 cm. In German. \$142.

The issuance of this volume marks the completion of the calcium series. Earlier releases covered historical aspects (A1, 1950); occurrence, the element, and alloys (A2, 1957); technology (B1, 1956); and compounds (B2, 1957). Most of this final volume (B3), which is more than twice the length of any of the previous releases in this series, consists of a completion of the treatment of compounds, but shorter sections on the chemistry of Ca^{+2} and the detection and determination of calcium, strontium, and barium are also included.

Coverage in B3 is thorough through 1949, and references to later sources are not infrequently made (citations of work reported as late as 1961 appear occasionally). Selection of the subjects to be favored by more up-to-date coverage was necessarily arbitrary, and preference appears, in most cases, to have been accorded those areas which are of industrial importance.

The principal classes of compounds dealt with in B3 are those involving calcium with sulfur (continuation from B2), boron, carbon, silicon, phosphorus, and the lighter elements of groups I and II. The subject-matter treatment is essentially the same as that in the predecessor (B2) except that marginal notations in English are now employed. As usual, strong emphasis is placed on phase equilibria, and virtually all diagrams relate to

this subject. Illustrations of crystal structures are encountered only infrequently.

B3 is characterized by the same systematic approach and attention to detail that inorganic chemists have learned to expect of Gmelin. It will prove of great value not only to those whose primary interest is in the chemistry of calcium as such, but to many others who work with calcium-containing compounds.

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BOOKS RECEIVED

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International Union of Pure and Applied Chemistry. Organic Chemistry Division and Gesellschaft Deutscher Chemiker. "Organo-Phosphorus Compounds." International Symposium, Heidelberg. Butterworth, Inc., 7235 Wisconsin Ave., Washington 14, D. C. 1964. v + 386 pp. \$9.00.

HOBART H. WILLARD, LYNNE L. MERRITT, JR., and JOHN A. DEAN. "Instrumental Methods of Analysis." 4th Ed. D. Van Nostrand Co., Inc., 120 Alexander St., Princeton, N. J. 1965. v + 784 pp. \$10.75.

American Chemical Society. "Solvated Electron." Advances in Chemistry Series, No. 50. American Chemical Society, 1155 Sixteenth St. N.W., Washington, D. C. 1965. v + 304 pp. \$8.00.

Additions and Corrections

1964, Volume 3

J. P. Fackler, Jr., and I. D. Chawla: Spectra of Manganese(III) Complexes. I. Aquomanganese(III) Ion and Hydroxide, Fluoride, and Chloride Complexes.

Page 1130. The reference C. Furlani and A. Ciana, *Ann. Chim. (Rome)*, **48**, 286 (1958); *Chem. Abstr.*, **52**, 13417 (1958), is misquoted. Furlani and Ciana observed the spectra of various manganese(III) aqueous species but do not claim to have observed the spectrum of hexaaquamanganese(III).—J. P. FACKLER, JR.

1965, Volume 4

F. A. Cotton and S. J. Lippard: The Preparation and Characterization of Compounds Containing both Hexabromorhenate(IV) and the Trirhenium Nonabromide Group.

Page 61. Nine lines below the caption "Determination of Structure," the expression $h + k \neq n$ should read $h + k \neq 2n$.—STEPHEN J. LIPPARD

R. Schmutzler and G. S. Reddy: Phosphorus-Fluorine Chemistry. XIII. The Adduct of Nitrosyl Fluoride with Phenyltetrafluorophosphorane. New Fluorophosphates.

Page 197. In Table II the H^1 chemical shift of $\text{C}_6\text{H}_5\text{PF}_3\text{N}(\text{CH}_3)_2$ has been given incorrectly. The values -1.12 (CH_3) and -3.10 (CH_2) should be replaced by -2.76 ($\text{N}(\text{CH}_3)_2$).—REINHARD SCHMUTZLER

Marvin M. Fein, Joseph Green, Jack Bobinski, and Murray S. Cohen: Reaction Products from Decaborane and Amides.

Page 584. In column 1, line 5 of the fourth paragraph, the formula should be $(\text{Pyr})_2\text{B}_{10}\text{H}_{12}\text{Pyr}$.—A. W. MARCELLIS