

Hydroboration. By HERBERT C. BROWN, R. B. Wetherill Research Professor, Purdue University. W. A. Benjamin, Inc., 2465 Broadway, New York 25, N.Y., 1962. xiii + 290 pp. 15 × 23 cm. Price, \$11.50.

The hydroboration reaction must be classed as a major advance in synthetic organic chemistry. Therefore, the present volume is a welcome addition to the chemical literature.

The many applications of the hydroboration reaction which Professor Brown and his students have developed and the use of the hydroboration reaction by other workers have been summarized and interwoven into a very readable text. However, it would have helped the reader if a consistent nomenclature had been used. For example, RBH_2 is referred to as a borane and as a diborane. The book is well illustrated with equations which allow the reader to grasp readily the significance of the text material.

The volume begins with a general survey of hydroboration and follows with chapters which logically develop the applications and ramifications of the reaction. The chapter covering hydroboration procedures could have been improved considerably by including a few detailed experimental procedures and by including a section on some of the hazards involved, especially for the generation and use of diborane.

It would have improved the book considerably if a more durable binding and a thinner paper had been used; the rough porous surface of the cover is easily soiled and the heavy paper prevents the book from lying open.

The book is recommended to students and chemists alike, who are interested in organoboron chemistry, stereochemistry, or synthetic organic chemistry.

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BOOKS RECEIVED

April 1–May 31, 1963

- A. KOTOWSKI, Edited by. "Dokumentation im Gmelin-Institut." The Gmelin Institute, United States Office, 7 Woodward Avenue, Larchmont, N. Y. 1962. 194 pp.
- P. J. LEURGANS, Edited by. "Lectures in Materials Science." W. A. Benjamin, Inc., 2465 Broadway, New York 25, N. Y. 1963. viii + 109 pp. Clothbound, \$7; paperbound, \$3.95.
- P. SOUCHAY. "Polyanions et Polycations." Monographies de Chimie Minérale, Gauthier-Villars Editeur, Paris. 1963. 248 pp. 42 F. (\$9).
- R. BERTHON. "Représentation des Équilibres de Solubilités et Utilisation des Diagrammes." Monographies de Chimie Minérale, Gauthier-Villars Editeur, Paris. 1962. 272 pp. 38 F. (\$8).
- F. A. COTTON. "Chemical Applications of Group Theory." Interscience Publishers, Inc. (Div. of Wiley), 605 Third Avenue, New York 16, N. Y. 1963. ix + 295 pp. \$12.50.
- K. NAKAMOTO. "Infrared Spectra of Inorganic and Coordination Compounds." John Wiley and Sons, Inc., 605 Third Avenue, New York 16, N. Y. 1963. xii + 302 pp. \$9.50.
- T. MOELLER. "The Chemistry of the Lanthanides." Reinhold Publishing Corp., 430 Park Avenue, New York 22, N. Y. 1963. ix + 109 pp. \$1.95.
- M. STACEY, J. C. TATLOW, and A. G. SHARPE, Edited by. "Advances in Fluorine Chemistry." Vol. 3. Butterworth, Inc., 7235 Wisconsin Avenue, Washington 14, D. C. 1963. 287 pp. \$9.95.
- Advances in Chemistry Series, No. 37. "Reactions of Coordinated Ligands and Homogeneous Catalysis." American Chemical Society, 1155 Sixteenth Street, N.W., Washington 6, D. C. 1963. vii + 255 pp. \$7.00.
- B. TRÉMILLON and G. CHARLOT. "Les Réactions Chimiques dans les Solvants et les Sels Fondus." Monographies de Chimie Minérale, Gauthier-Villars, Editeur, Paris. 1963. xii + 602 pp. 94 F. (\$20).