

BOOK REVIEW

Metal Interactions with Boron Clusters. Russel N. Grimes Editor, Plenum Press, New York, 1982, 327 + xiv pages, \$ 42.50

This book is an excellent contribution to the knowledge of boron cluster chemistry. In particular, structural and bonding relationships between transition and main group metals and boron clusters are considered. The chapters are written by a group of scientists who are authoritative in the field and the following topics are covered: Structural and bonding features of metallaboranes and metallacarboranes (M. E. O'Neil and K. Wade); Transition-Metal derivatives of *nido*-boranes and some related species (N.N. Greenwood and J. D. Kennedy); Interactions of metal groups with the octahydrotriborate(1-) anion, $B_3H_8^-$ (D. F. Gaines and S. J. Hildebrandt); Metallaboron cage compounds of the main group metals (L. J.

Todd); *closo*-Carborane-metal complexes containing metal-carbon and metal-boron σ -bonds (S. Bresadola); Electrochemistry of metallaboron cage compounds (W. E. Geiger Jr.); Boron clusters with transition metal-hydrogen bonds (R. N. Grimes).

The standard of presentation and the accuracy of these chapters are uniformly high and extensive lists of references are included. The authors should be commended for this excellent work on the fascinating chemistry that results when polyhedral boron compounds interact with metal reagents.

'Metal Interactions with Boron Clusters' is recommended as a useful and valuable text for inorganic and organometallic chemists operating in this research field.

UMBERTO BELLUCO