Journal of Organometallic Chemistry
Elsevier Sequoia S.A., Lausanne
Printed in The Netherlands

BOOK REVIEW

Molecular Orbital Theories of Bonding in Organic Molecules; by R. L. FLURRY, JR.; M. Dekker, New York, 1968, 10+334 pages, $ 17.75 (*Applied Quantum Chemistry Series*)

Although this book does not touch directly on the subject of organometallic chemistry it naturally contains much that is very relevant to workers in this field.

The main thing it has to recommend itself is that it is up-to-date. For example, there is a good discussion of the semi-empirical sigma molecular orbital theories (extended Huckel and CNDO) with references through to 1967. It also describes the use of gaussian basis sets for MO calculations, although here the literature seems to stop around 1965 so that the recent successes with this method are not covered.

My criticisms of the book are mainly covered by the statement "I would not have done it this way". For example atomic orbitals are not discussed until half way through the book although one presumably needs to have some idea of what a *p*-orbital looks like to understand Huckel π-electron theory. I also feel that 18 pages at the end of the book is hardly enough on "Applying the Theories" to justify their importance to the reader.

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