



An Introduction to Molecular Orbitals

By Yves Jean, François Volatron

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This text for advanced undergraduate and graduate students guides the reader through a smooth progression from the most elementary ideas of molecular orbital theory to an understanding of the electronic structure, geometry, and reactivity of large molecules. It starts with simple molecules and proceeds to relatively large organometallic complexes. The slant is theoretical, but in the last chapter the authors strengthen the link between theory and experiment. Focusing on basic concepts, the authors take a qualitative approach, which enables this text to fill a void in the undergraduate curriculum. The book is intended as a core or supplementary text in an advanced chemistry course.

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An Introduction to Molecular Orbitals By Yves Jean, François Volatron Bibliography

- Sales Rank: #1450629 in Books
- Published on: 1993-03-11
- Original language: English
- Number of items: 1
- Dimensions: 6.69" h x .86" w x 9.56" l, 1.40 pounds
- Binding: Hardcover
- 352 pages

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Review

"An excellent introductory text to the molecular orbital theory, with a special attention being paid to drawing molecular orbital diagrams. The book of problems is one of the few in this particular area of chemistry. As such, it should be extremely useful as a supplemental text in molecular orbital theory courses."--Cyril Parkanyi, Florida Atlantic University

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"A simplified treatment. Structures and diagrams are of high quality." --Choice

"Will be ideal for chemistry students at all levels." --The New York Public Library, New Technical Books

Language Notes

Text: English

Original Language: French

About the Author

Yves Jean is Professor at University Paris-Sud (Orsay, France) and Researcher at Ecole Polytechnique (Palaiseau, France).

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