

## CHAPTER OVERVIEW

### Molecular Orbital Theory

Molecular Orbital Theory is another theory to explain chemical bonding using orbitals. It was developed about the same time Valence Bond Theory was developed, primarily by Mulliken and Hund. (Mulliken was mentioned earlier because he proposed a definition of electronegativity, and Hund because of Hund's Rule.) It is a little harder to learn than Valence Bond Theory, but very useful.

[Frontier MOs: An Acid-Base Theory](#)

[Intro to MO Theory](#)

[MO Diagrams for First Row Diatomic Molecules](#)

[MO Diagrams for Heterodiatomic Molecules](#)

[MO Diagrams for Linear Triatomic Molecules](#)

[MO Diagrams for Water and Nitrate Ion](#)

[MO Theory: Simplest Examples](#)

[Mixing Orbitals to Make MOs](#)

[Reading and Writing MO Diagrams](#)

[Types of MOs](#)

### Contributors and Attributions

- [Emily V Eames](#) (City College of San Francisco)

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