











Huckel Molecular Orbital Theory

Basic Assumption

1. The atomic orbitals contributing to the π -bonding are of a different symmetry to the atomic orbitals contributing to the σ -bonding and may be treated independently.

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- 2. Coulomb integrals for all the carbon atoms are assumed to be identical.
- 3. All resonance integrals between directly-bonded atoms are assumed to be the same; whilst those between atoms that are not directly bonded are neglected.
- 4. All overlap integrals representing the overlap of atomic orbitals centered on different atoms are neglected.





























