

## CHAPTER OVERVIEW

### 17: Higher Order Corrections to Electronic Structure

Electrons interact via pairwise Coulomb forces; within the "orbital picture" these interactions are modelled by less difficult to treat "averaged" potentials. The difference between the true Coulombic interactions and the averaged potential is not small, so to achieve reasonable (ca. 1 kcal/mol) chemical accuracy, high-order corrections to the orbital picture are needed.

[17.1: Orbitals, Configurations, and the Mean-Field Potential](#)

[17.2: Electron Correlation Requires Moving Beyond a Mean-Field Model](#)

[17.3: Moving from Qualitative to Quantitative Models](#)

[17.4: Atomic Units](#)

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