

## CHAPTER OVERVIEW

### 14: Covalent Bonding

#### Chemical Principles (Zumdahl and Decoste) Textmap Alternative

##### Topic hierarchy

- 14.1: Hybridization and the Localized Electron Model
- 14.2: The Molecular Orbital Model
- 14.3: Bonding in Homonuclear Diatomic Molecules
- 14.4: Bonding in Heteronuclear Diatomic Molecules
- 14.5: Combining the Localized Electron and Molecular Orbital Models
- 14.6: Orbitals are Human Inventions
- 14.7: Introduction to Molecular Spectroscopy
- 14.8: Electronic Spectroscopy
- 14.9: Vibrational Spectroscopy
- 14.10: Rotational Spectroscopy
- 14.11: Nuclear Magnetic Resonance Spectroscopy

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