This is a textbook map of the McMurray's "Organic Chemistry" textbook. As with all Textmaps, it is not a copy of the original textbook, but is a map of comparable content on the Libretexts to recreated the flow.

- Front Matter

- 1: Structure and Bonding

- 2: Polar Covalent Bonds; Acids and Bases

- 3: Organic Compounds- Alkanes and Their Stereochemistry
4: Organic Compounds- Cycloalkanes and their Stereochemistry

5: Stereochemistry at Tetrahedral Centres

\[
\begin{align*}
\text{C} &= \text{C} \\
\text{C} &= \text{O} \\
\text{C} &= \text{C} \\
\end{align*}
\]

- 6: An Overview of Organic Reactions

7: Alkenes- Structure and Reactivity
8: Alkenes - Reactions and Synthesis

9: Alkynes - An Introduction to Organic Synthesis

10: Organohalides

11: Reactions of Alkyl Halides - Nucleophilic Substitutions and Eliminations
12: Structure Determination - Mass Spectrometry and Infrared Spectroscopy

\[ \Delta E = E_{-1/2} - E_{+1/2} \]

\[ m_s = \pm 1/2 \]

13: Structure Determination - Nuclear Magnetic Resonance Spectroscopy

\( \sigma^* \) (anti-bonding)

\( \pi^* \) (anti-bonding)

\( \pi \) (non-bonding)

\( \sigma \) (bonding)

14: Conjugated Compounds and Ultraviolet Spectroscopy

15: Benzene and Aromaticity
16: Chemistry of Benzene - Electrophilic Aromatic Substitution

17: Alcohols and Phenols

18: Ethers and Epoxides; Thiols and Sulfides

19: Aldehydes and Ketones- Nucleophilic Addition Reactions
20: Carboxylic Acids and Nitriles

- 21: Carboxylic Acid Derivatives - Nucleophilic Acyl Substitution Reactions

22: Carbonyl Alpha-Substitution Reactions

- 23: Carbonyl Condensation Reactions
24: Amines and Heterocycles

• 25: Biomolecules- Carbohydrates

• 26: Biomolecules- Amino Acids, Peptides, and Proteins

• 27: Biomolecules - Lipids
28: Biomolecules - Nucleic Acids

- Back Matter