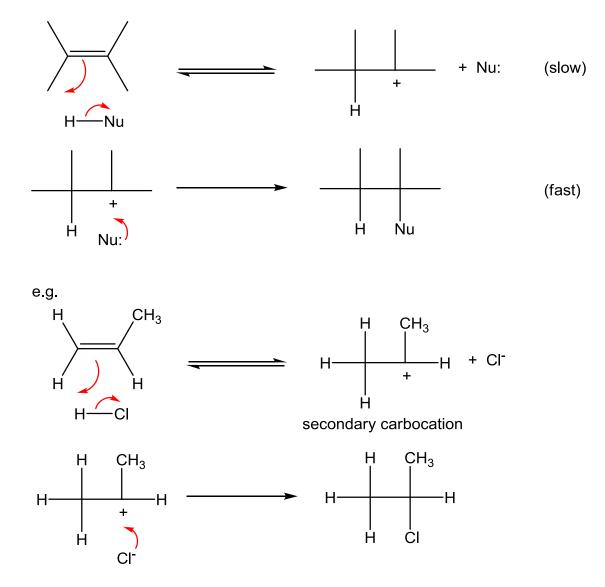
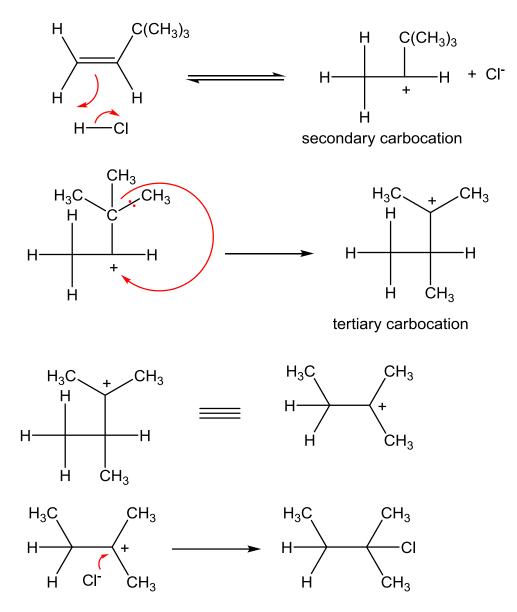
## Mechanisms – Addition Reactions

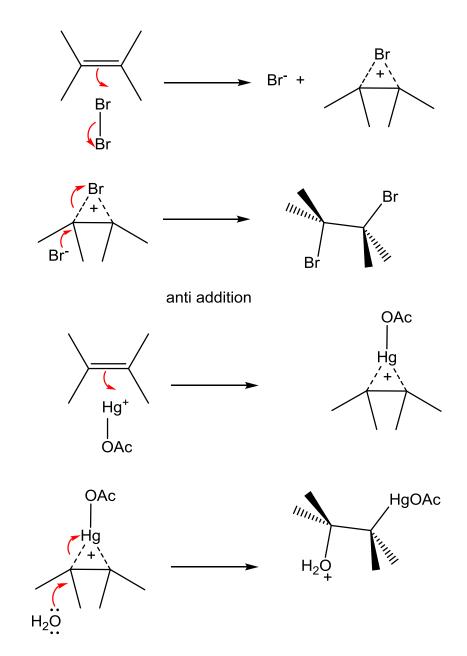
- 1. Ionic electrophilic addition reactions
- a) Electrophilic ionic addition to C=C via carbocations



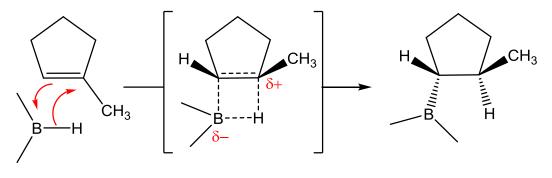
Do not forget re-arrangements ...



b) Electrophilic ionic addition to C=C via halonium/mercurinium ions:

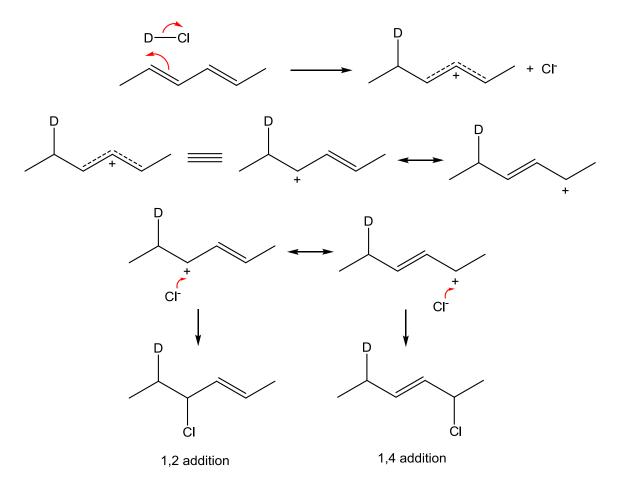


c) Electrophilic ionic addition to C=C via a four-membered transition state – hydroboration

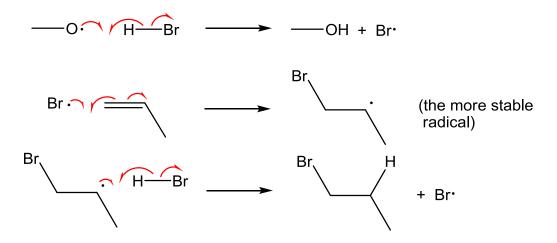


syn addition

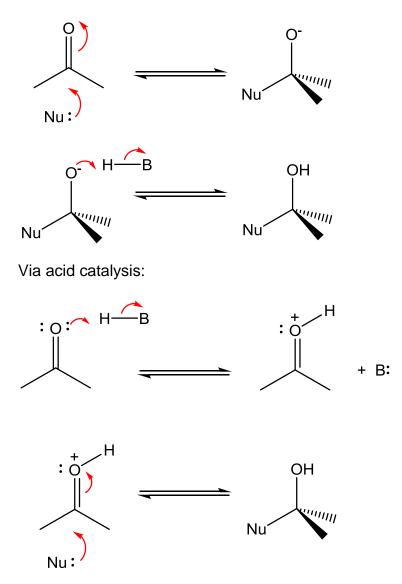
d) Electrophilic addition to conjugated dienes

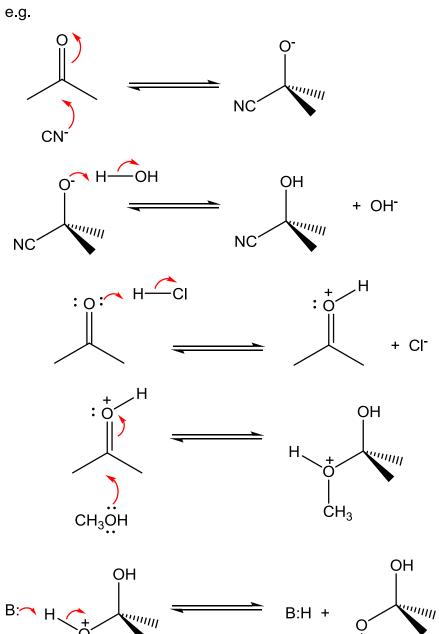


2. Free radical electrophilic addition reactions



3. Nucleophilic addition to aldehydes and ketones





| CH<sub>3</sub>

I CH<sub>3</sub>

