Chapter 5 – Alkenes: Bonding, Structure, Nomenclature and Properties

Outline

I. Structure of Alkenes

1) Shapes of Alkenes (5.1 A)
2) Carbon-Carbon Double Bond Orbitals (5.1 B)
3) Cis, Trans Isomerism in Alkenes (5.1 C)

II. Nomenclature of Alkenes

1) IUPAC nomenclature (5.2 A)
2) Common Names (5.2 B)
3) Systems for designating Configurations in Alkenes (5.2 C)
4) Cycloalkenes (5.2 D)

Recommended Problems and Examples: 5.3-5.7, 5.14 (a-f), 5.15, 5.17, 5.23.