Chem. 1410, HW\#9. Assigned 11/24; due 12/2

1. There are at least 5 isomers that one could envision for H4. Sketch these structures and report the Huckel total energies for each.
2. What are the atomic coefficients of the pi and pi* Huckel orbitals of hexatriene?
3. Explain using molecular orbitals why CO 2 is linear but CO 2 anion is bent.
4. Show how you can use symmetry to simplify calculation of the Huckel orbital energies for fulvene.
