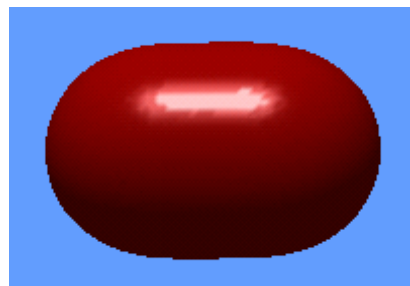
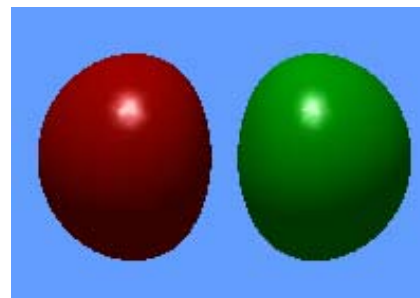


The Molecular Orbitals of the Hydrogen

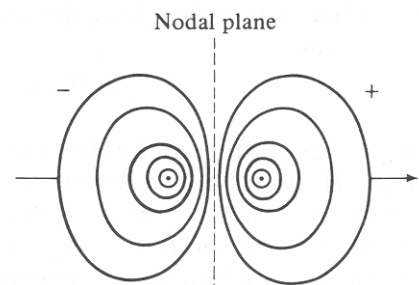
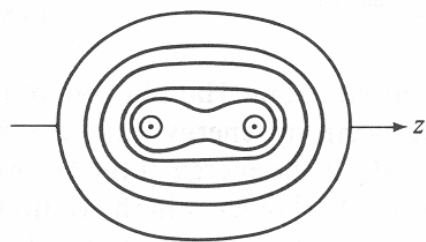
Depicted as 3D (above) and 2D (below) Probability Contours



σ_{1s}



σ^*_{1s}



(larger cross-sections contain larger fractions of the total probability density)

(Ira N. Levine, *Quantum Chemistry*, 3rd ed.; Allyn and Bacon: Boston, 1983.)