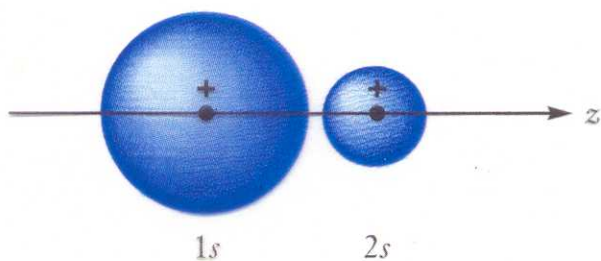
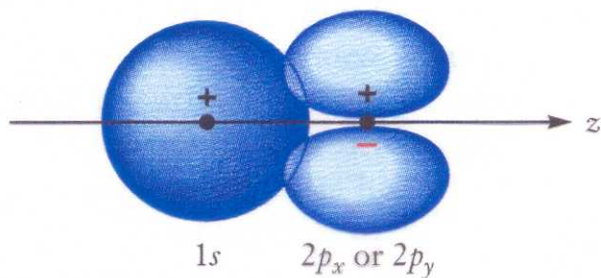


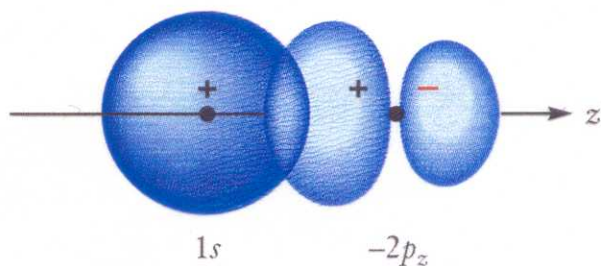
The Molecular Orbitals of HF



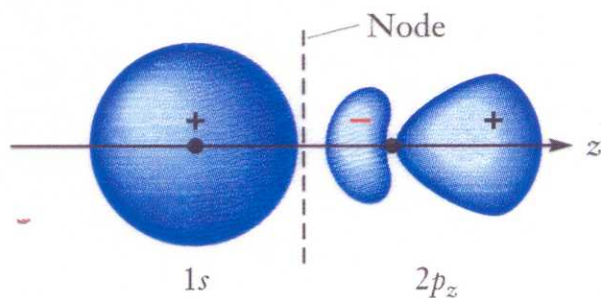
(a) Nonbonding
(negligible overlap)



(b) Nonbonding
(phases cancel)



(c) Bonding, σ
(significant overlap)



(d) Antibonding, σ^*