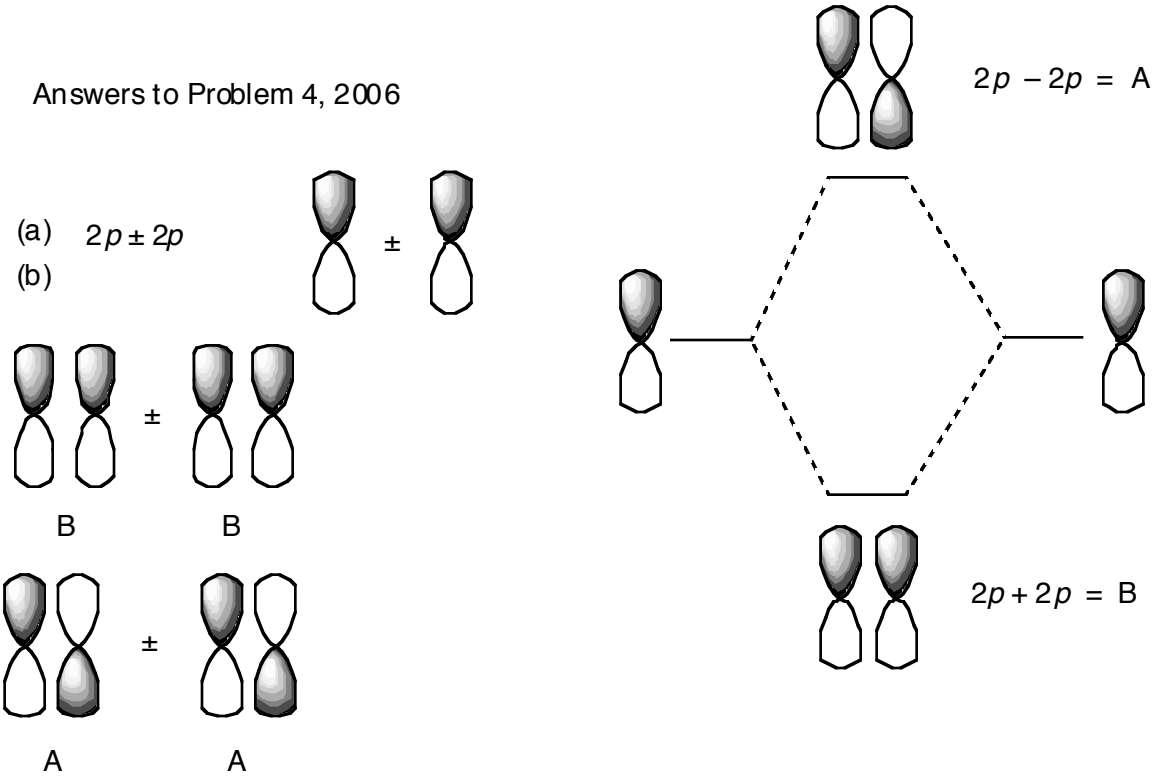
Answers to Problem 4, 2006



We interact B ± B and A ± A

For two reasons we need not examine B ± A.

1. all such interactions are "net zero"
2. at this level of "theory" we need only interact the orbitals closest in energy (B ± B, A ± A)