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Which one of the following statements is *not true*?

- (A) The atomic orbitals that overlap to form the C-H σ bonding molecular orbital of ethane, CH_3CH_3 are $\text{Csp}^3 + \text{H}1\text{s}$.
- (B) The atomic orbitals that overlap to form the C-H σ bonding molecular orbitals of ethene, $\text{H}_2\text{C}=\text{CH}_2$, are $\text{Csp}^2 + \text{H}1\text{s}$.
- (C) The atomic orbitals that overlap to form the C-C σ molecular bonding orbital of ethyne, $\text{HC}\equiv\text{CH}$, are $\text{Csp} + \text{Csp}$.
- (D) The atomic orbitals that overlap to form the C-O σ molecular bonding orbital of formaldehyde, $\text{H}_2\text{C}=\text{O}$, are $\text{Csp}^2 + \text{Osp}$.
- (E) The atomic orbitals that overlap to form the C-H σ molecular bonding orbital of formaldehyde, $\text{H}_2\text{C}=\text{O}$, are $\text{Csp}^2 + \text{H}1\text{s}$.

VIDEO SOLUTION



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