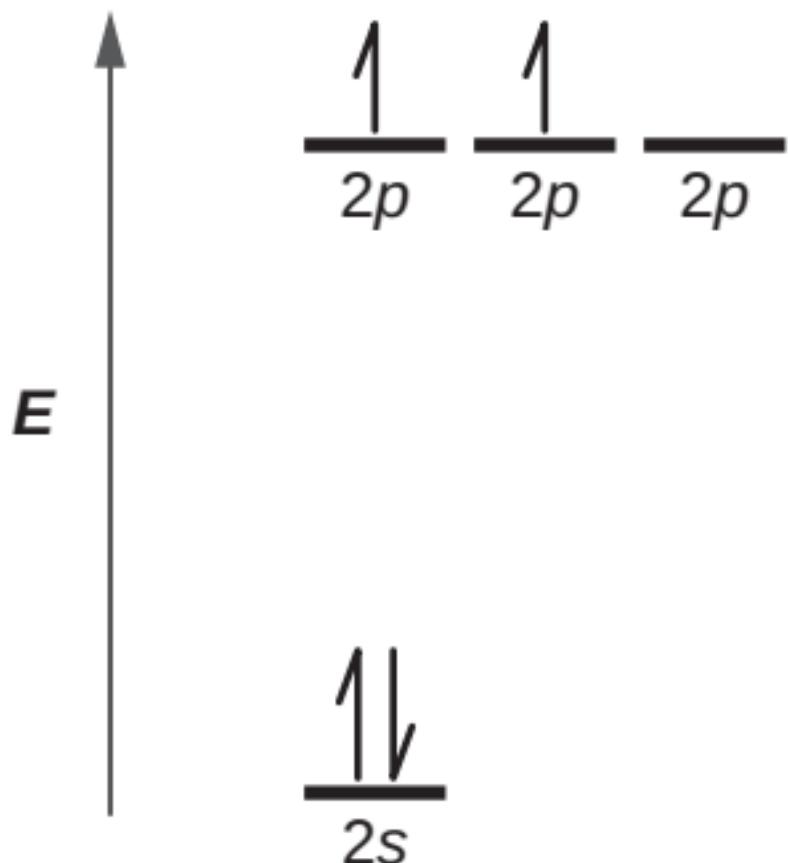


Orbitals in an isolated C atom



Hybridization  
→

Orbitals in the  $sp^3$  hybridized C atom in  $\text{CH}_4$

