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single atom a molecular orbital extends over all the atoms in a molecule or ion hence
the molecular orbital theory of bonding is a delocalized approach

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hydrocarbon with a molecular structure consisting of a simple chain of four carbon
atoms $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$ the molecular formula is C_4H_{10} the maximum number of

bonded hydrogens by the $2n + 2$ rule if the four carbon atoms form