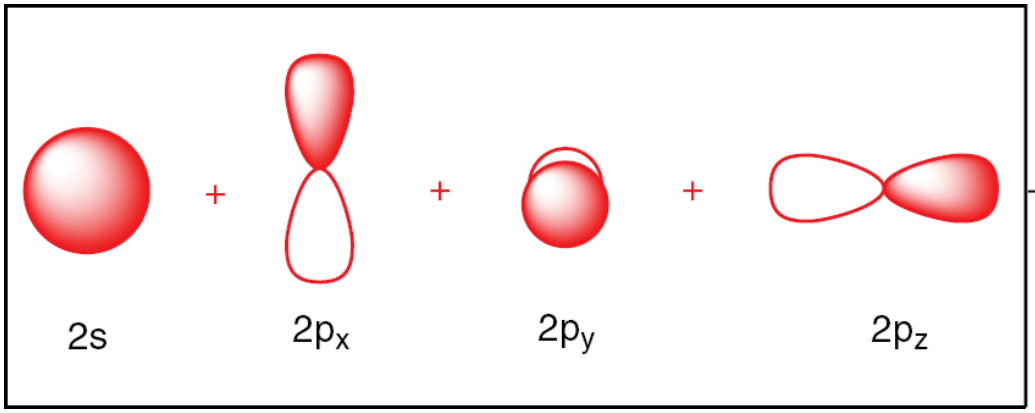
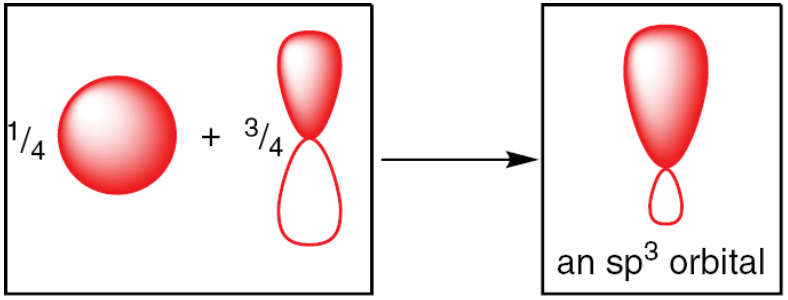
ibridizzazione sp^3

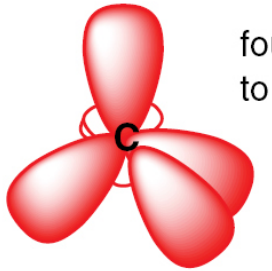


add together then divide into four equivalent hybrid orbitals:

$$\frac{s + p + p + p}{4} \longrightarrow 4 \times (^1/_4 s + ^3/_4 p)$$

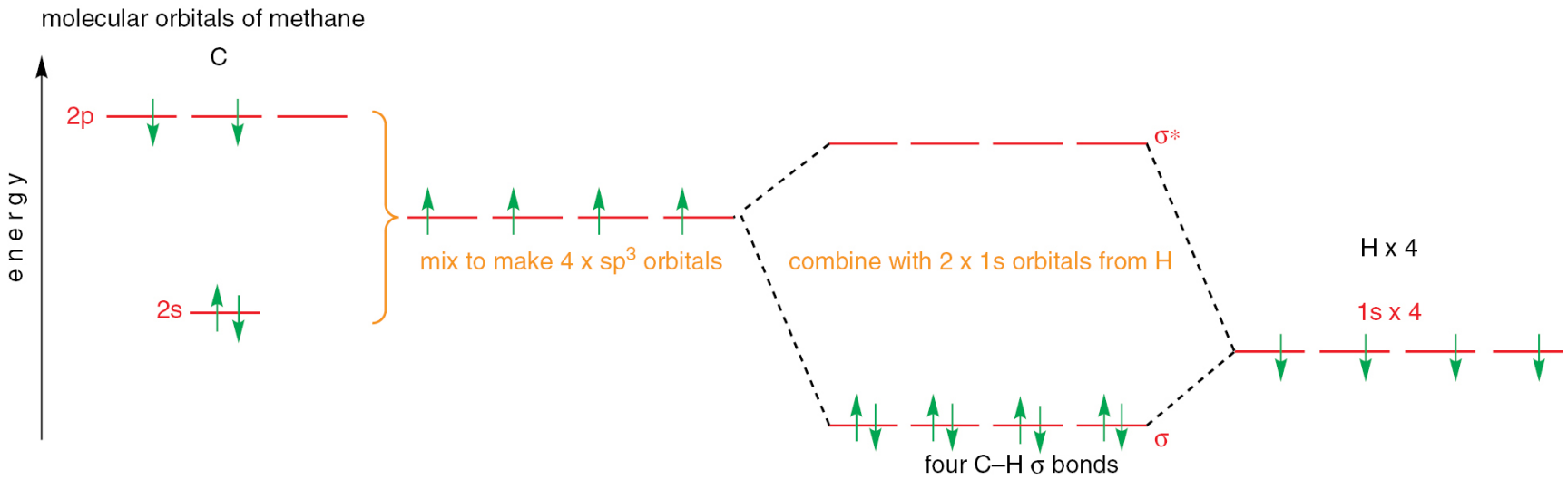
sp^3 orbital

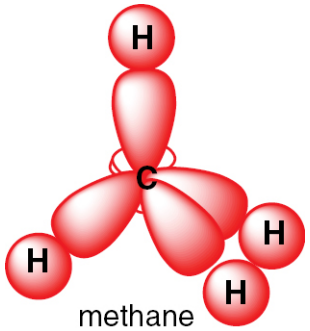




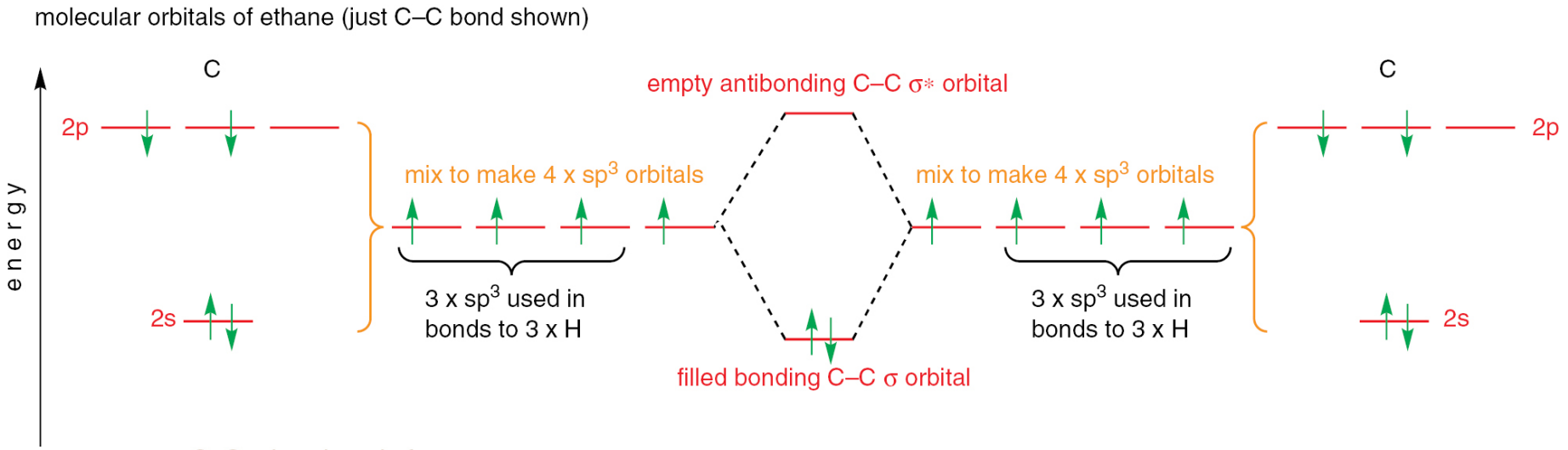
four sp^3 on one C atom point to the corners of a tetrahedron

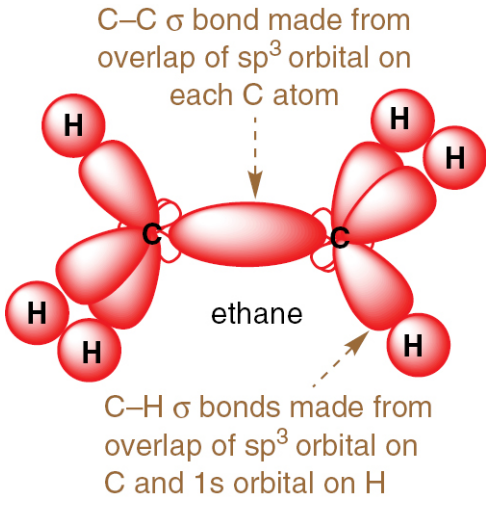
metano

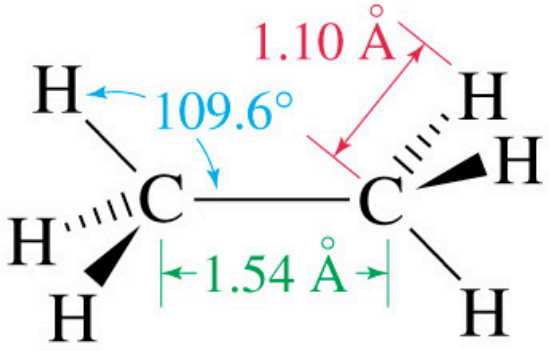




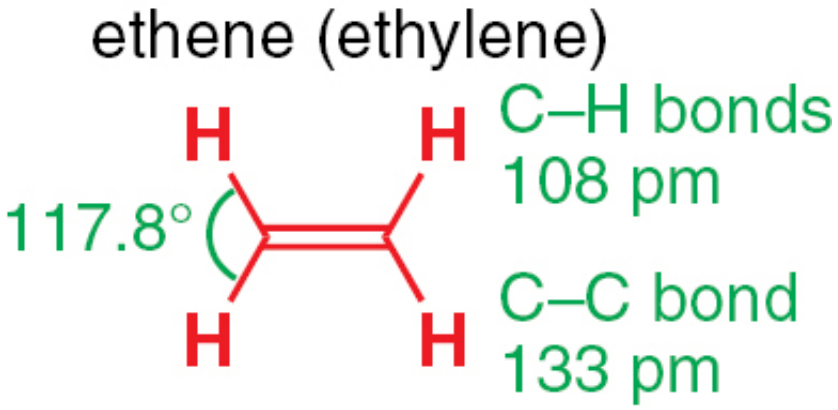
etano

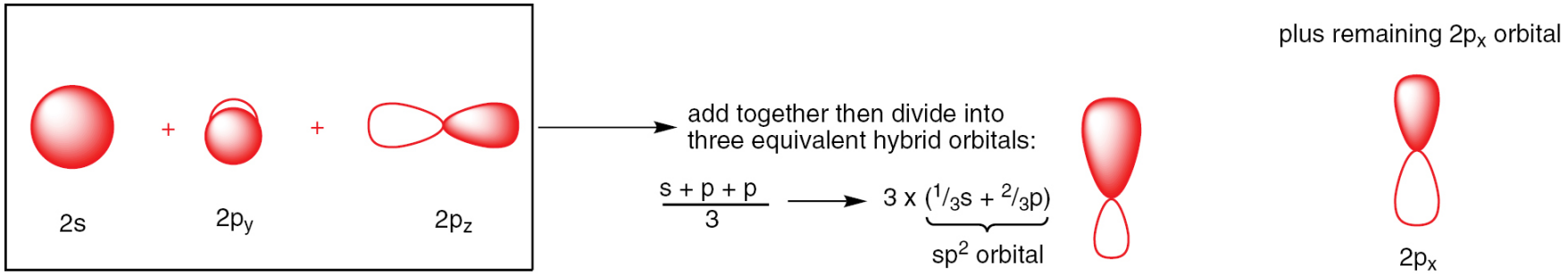






etene (etilene)





101a

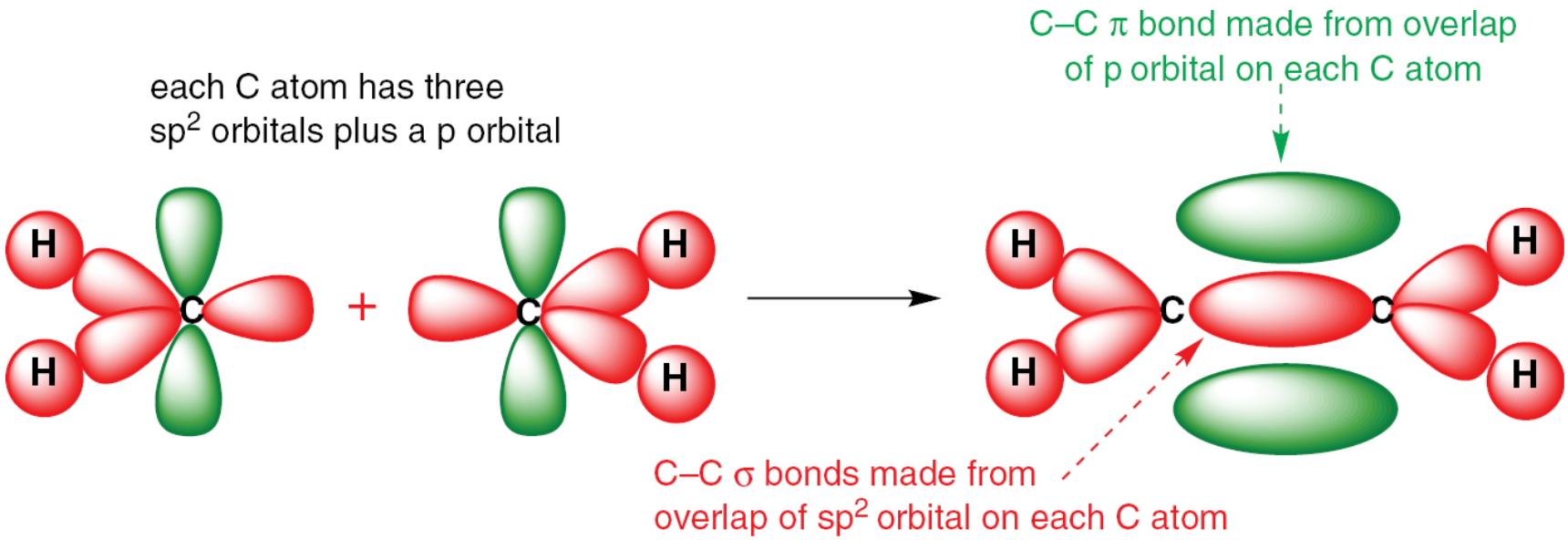
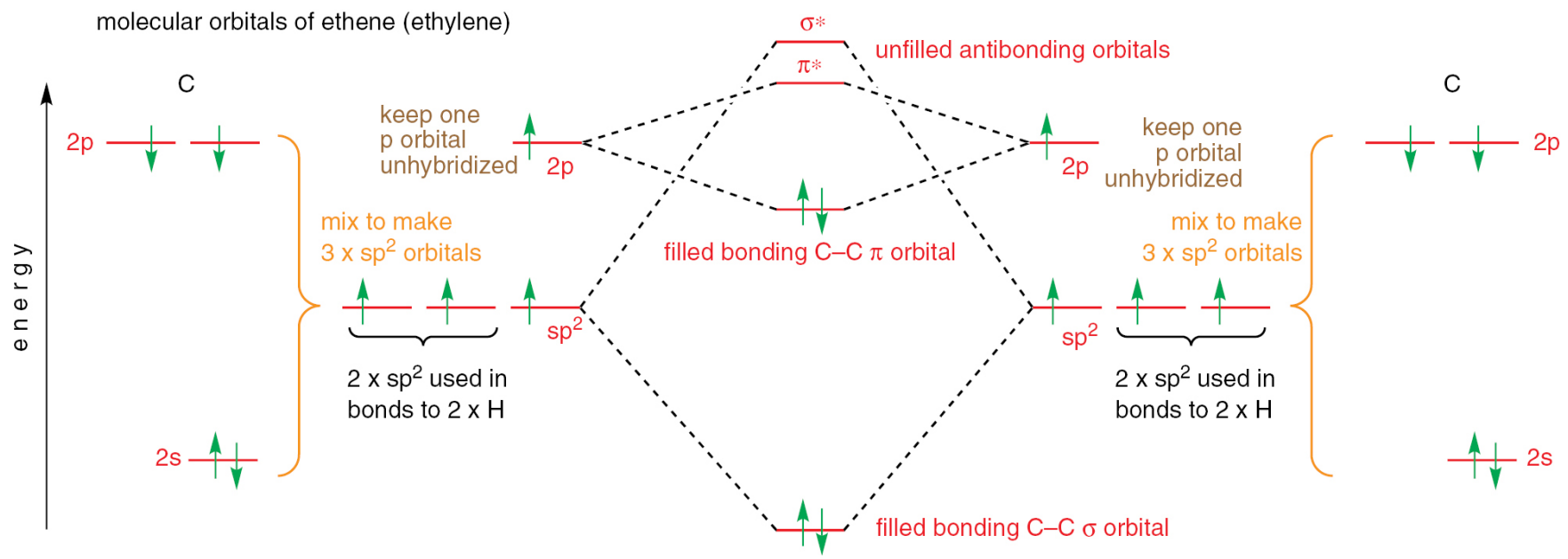
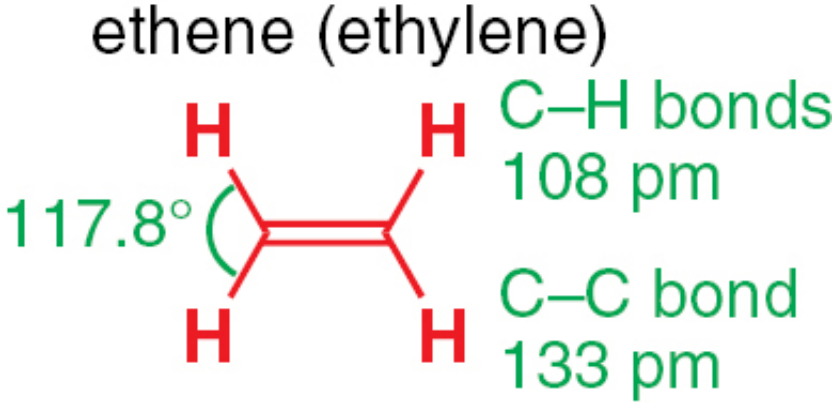


diagramma degli OM dell'etene



chemtube3D



click the structure to
visualize the orbitals of ethene

or go to: www.chemtube3d.com/orbitalsethene.htm

isoprene

Isoprene is the main non-methane volatile organic compound (VOC) emitted by terrestrial vegetation (500 million tons per year worldwide) It strongly affects climate by influencing tropospheric ozone production and the formation of organic aerosol. Models currently estimate that 75% of isoprene is emitted from tropical terrestrial ecosystems.