

OCS to be covered



Hybridisation (part -2)

JEE Mains - NTA

JEE Advanced - 117.3

History of PT - Super (1 hr)







Talk with OP² Baba







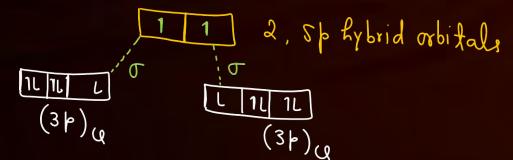


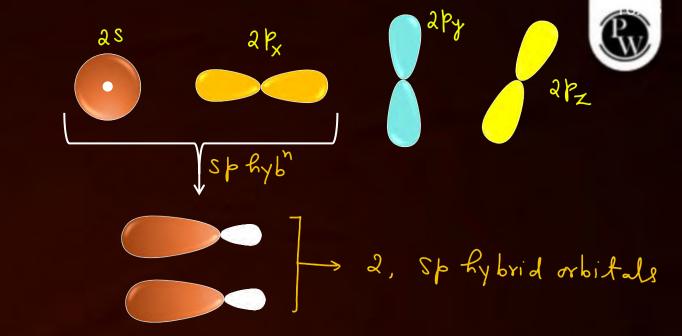


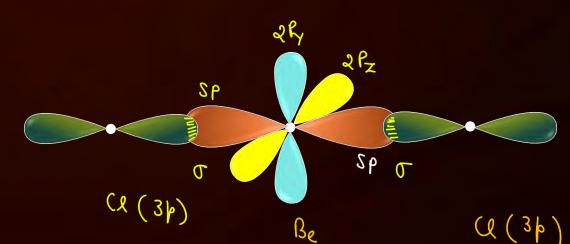
sp Hybridisation

$$SN = LP + SA$$

= $O + 2 = 2$



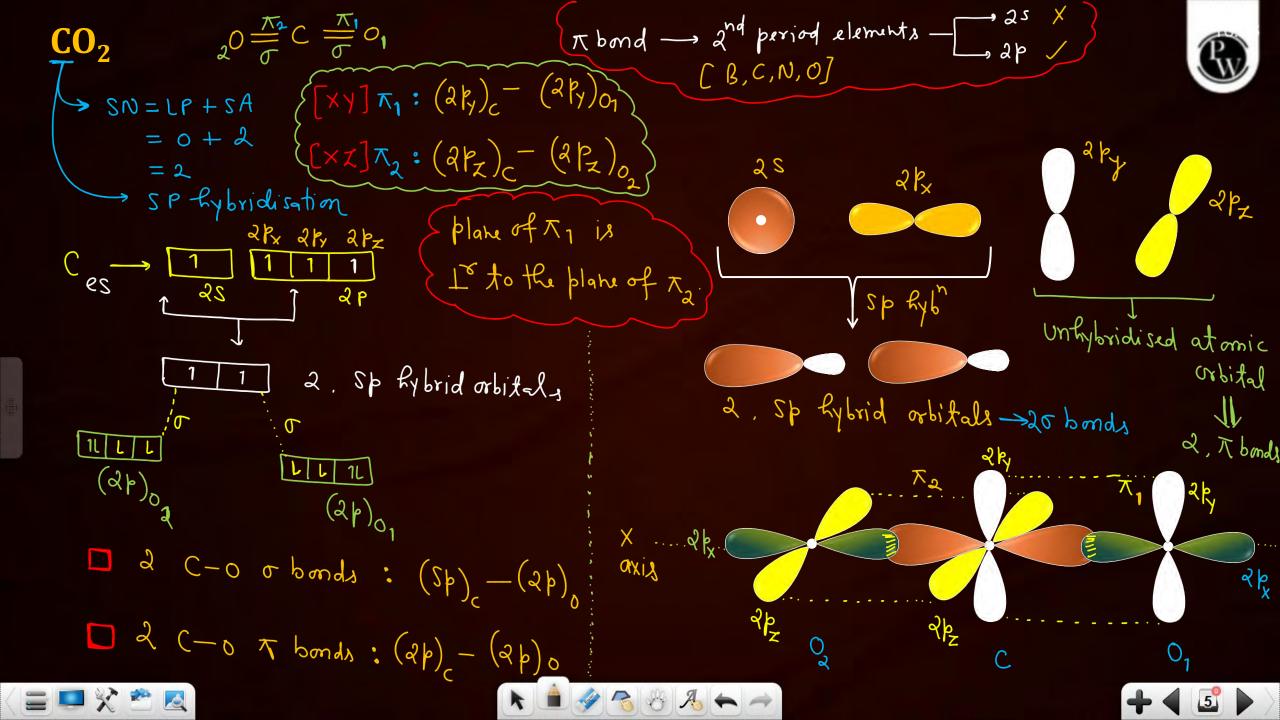










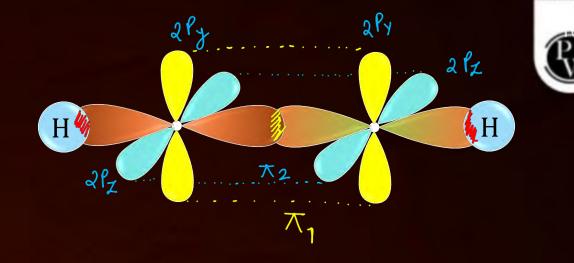


$$C_2H_2$$

$$\square 2C-H \circ bonds \longrightarrow (SP)_C - (1S)_H$$

$$\square 1 C-C \circ bonds \rightarrow (sp)_c - (sp)_c$$

$$\square 2 C - C \times bonds \longrightarrow (2p)_C - (2p)_C$$



C_a C_b

plane of T, I' plane of T2







$$C_2H_4$$

$$H = C = C$$

$$H = C$$

$$SP^{2} = SP^{2}$$

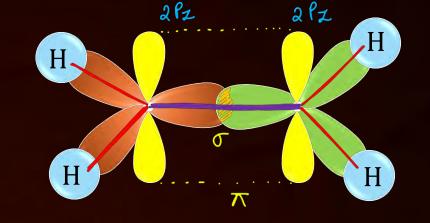
$$\Box + C - H = b m ds : (Sp^2)_C - (1S)_H$$

$$\Box$$
 C-c o bond: $(SP^2)_C$ - $(SP^2)_C$

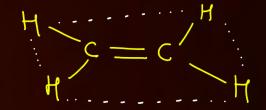
$$\square$$
 C-C \top bond: $(2p)_{-}$ $(2p)_{c}$

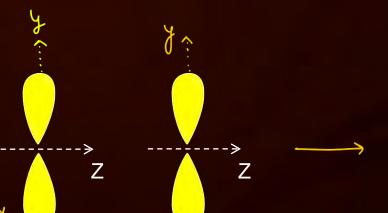
Nodal Plane of π-bond: XZ plane

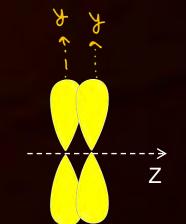
Nodal plane of Py - Xz plane

















QUESTION [JEE 2002]



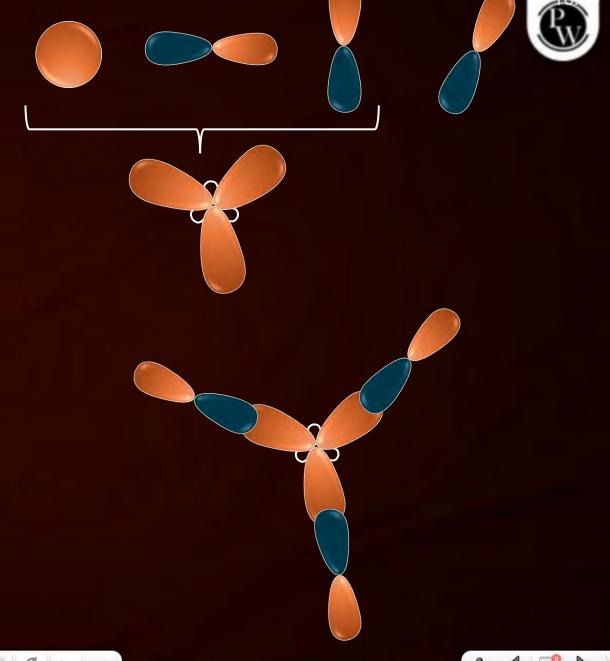
The nodal plane in the π -bond of ethene is located in

- the molecular plane
- B a plane parallel to the molecular plane
- a plane perpendicular to the molecular plane which bisects the carbon-carbon σ -bond at right angle
- a plane perpendicular to the molecular plane which contains the carbon-carbon σ -bond















Home work



Periodic Table PYQ's on page 147 : 1 to 52







