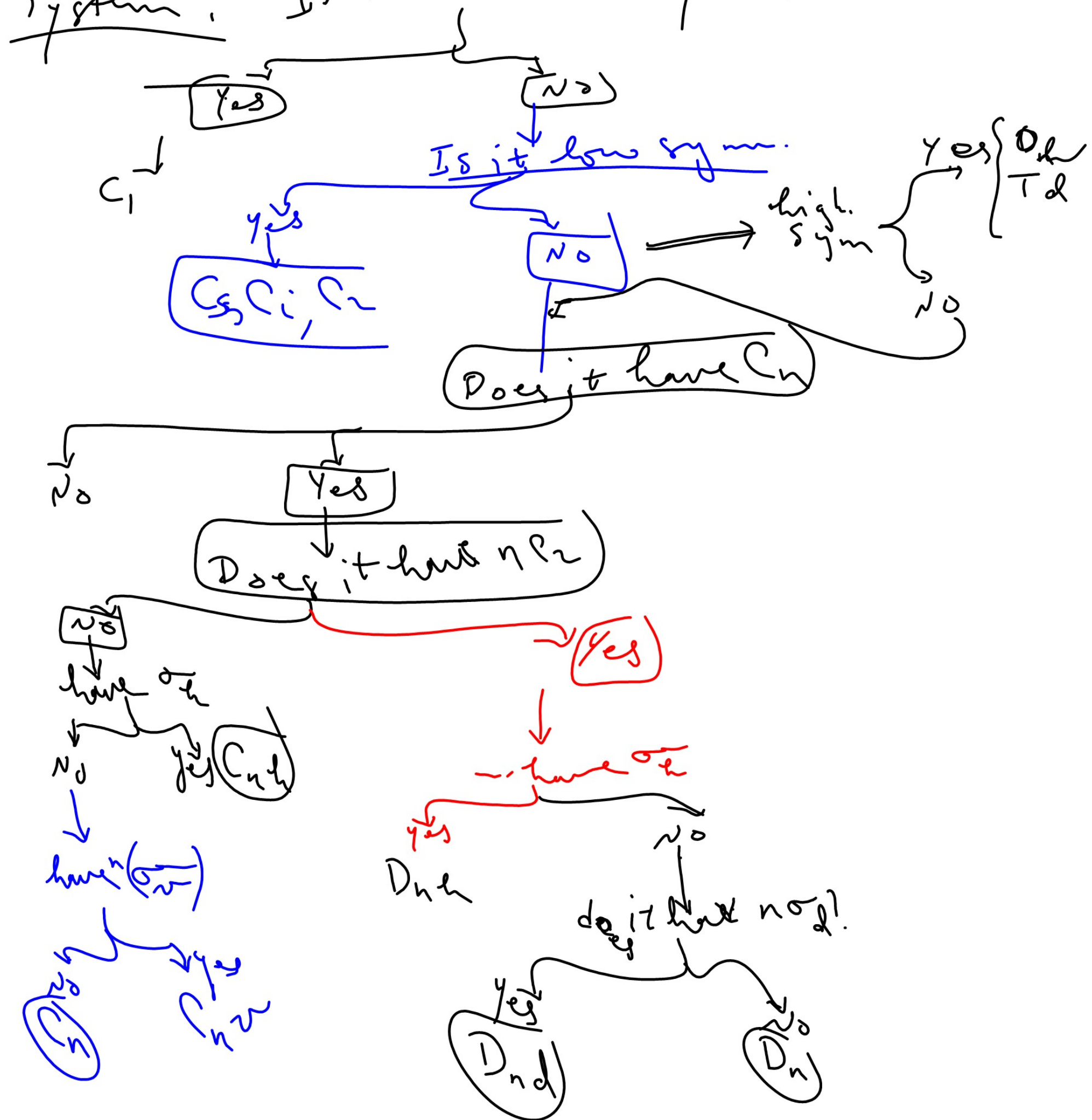


System: Is it with no symm?

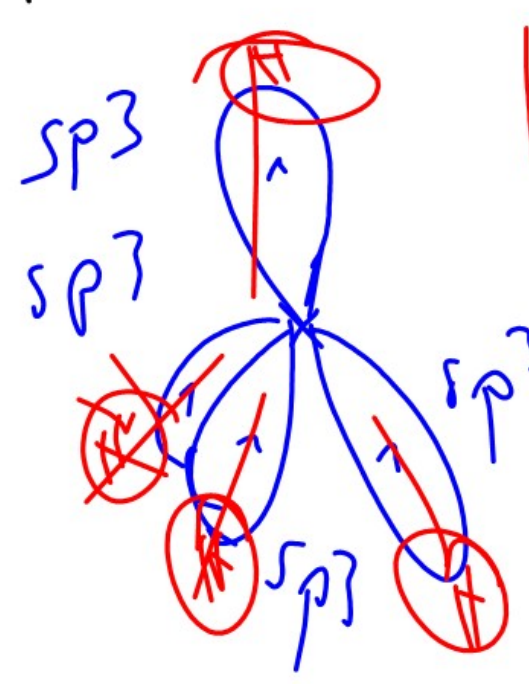
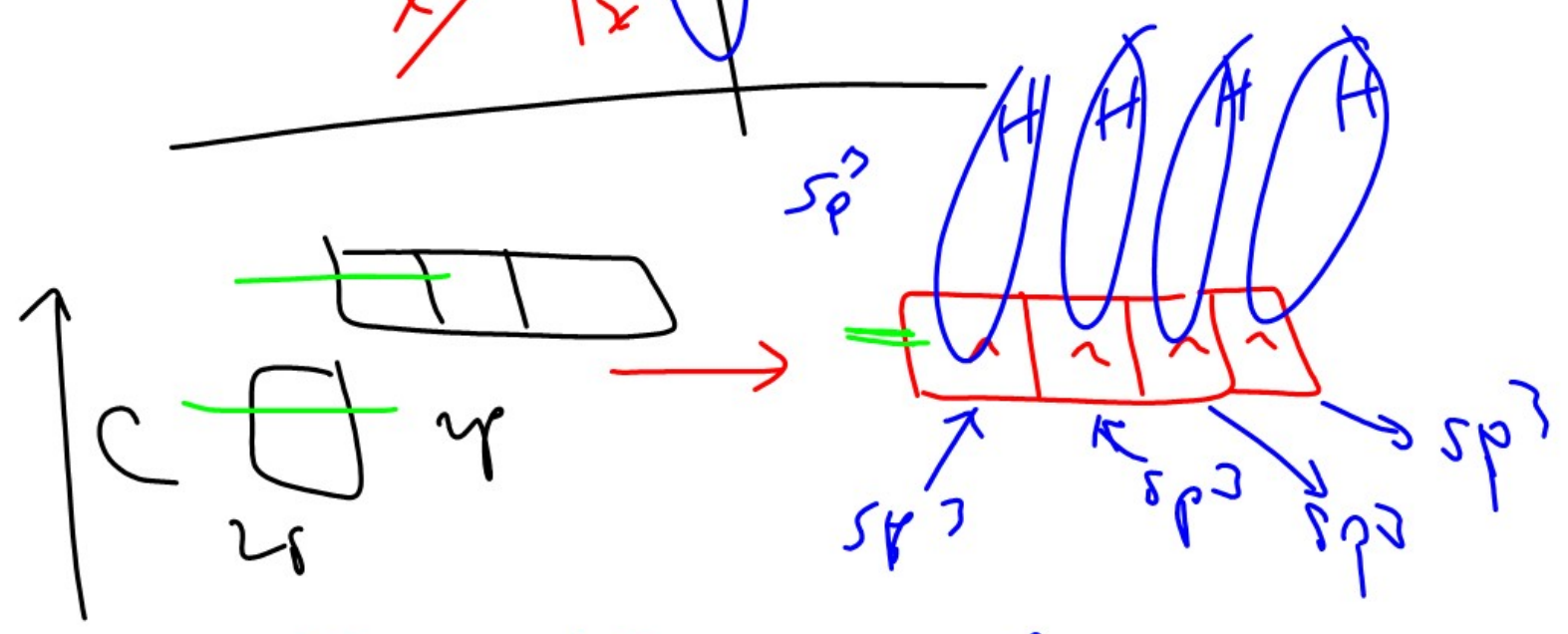
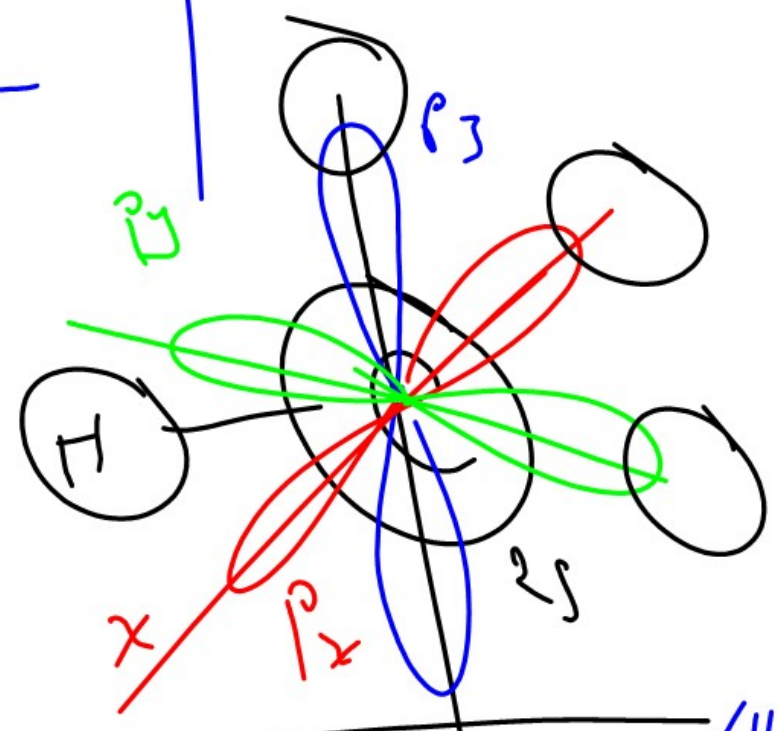
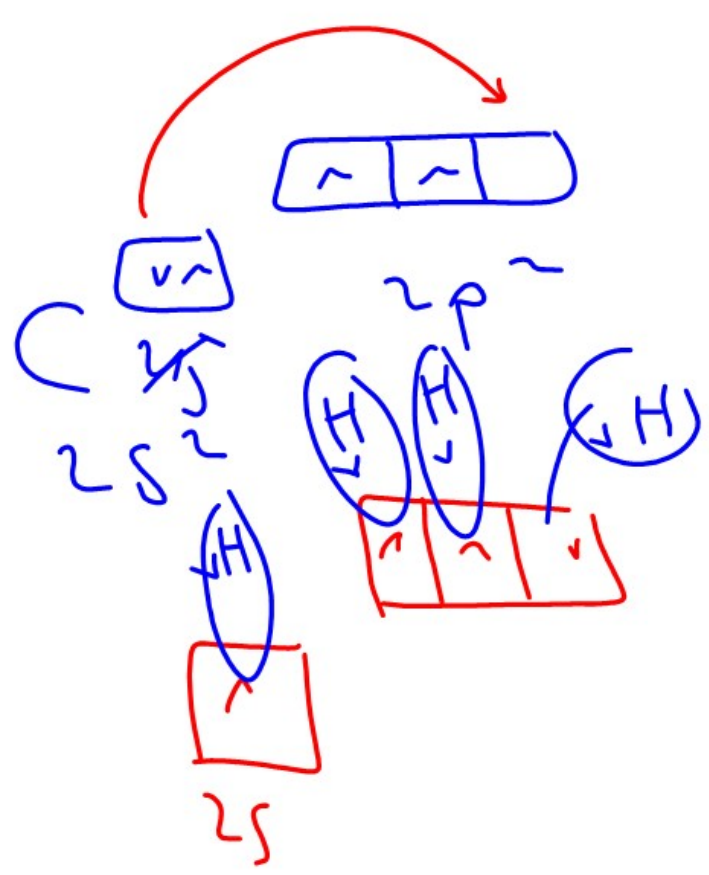


Chapt. 5

Bonds

Covalent Bond:

- Lewis
- VSEPR
- VBT
- MOT



- ① Overlap
- ② The $2e^- \Rightarrow$ pair up
- ③ Each bond is localized
- ④ Spectra

MOT

① LCAO $\neq$ (A.O.) ϕ

② no. of orbitals is conserved.

③ Non localized // delocalize e⁻s

④ hybrid. ?? L.A.O.s.

(H)
 $\psi_{1s}^{(1)}$

(H)
 $\psi_{1s}^{(2)}$

$\xrightarrow{LCAO}$

$\bar{\psi}$
 MO_s

$= N(\phi_1 \pm \phi_2)$

$$= \frac{1}{\sqrt{2}} (\phi_1^{(1)} \pm \psi_{1s}^{(2)})$$

(A-B)

$$\psi = x\phi_x \pm y\phi_y$$

