CHAPTER 14: COVALENT BONDING: ORBITALS

PROBLEMS WITH LEWIS STRUCTURE

- · Provides no indication of the snapes of the molecules
- · Or mould be predicted to be diamagnetic, but it is paramagnetic

Poramagnetic = has unpointed electrons.

0 ... 0

The Lewis structure of O₂ has an CoO double bond

with no unpaired electrons, i.e. dismogratic.

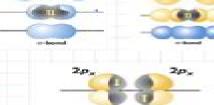
- Many compounds connot be represented by a single structure
- · Resonance Structures differ only in position of electrons not the nuclei-
- · Result in notions of hupervalent compounds and "expansion of octet"
- · can't explain molecules" such as Batho Lelectron deficient molecules)

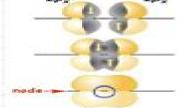
VALENCE—BOND THEORY "LOCALIZED ELECTRON MODEL

· Covalent bond is created by the overlap of orbitals on two atoms

TYPES OF OVERLAP: O and IT Bonds

- · Bonding in Ha
 - sausage shaped orbital, bond called \(\sigma\)-orbital
 called \(\sigma\) orbital because it has no node and is
 - Election density is concentrated between two nuclei.
- lout is still highest at the nuclei themselves.
- · Bonding in Na
 - · or orbital is obtained by overlap of two pr-orbitals
- Perpendicular p orbitals overlap in a Side-by-Side mariner.
- The resulting orbital has two lobes of electron density and is called a n-bond
- called Ti-orbital because it has a node and, when viewed down the intermuclear axis, it looks like a p-orbital
- it bond has no electron density between the nuclei along the bond axis.





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