

THEORIES OF COORDINATION COMPOUNDS






Valence bond theory (VB Theory)

Valence bond theory, primarily the work of Linus Pauling regarded bonding as characterized by the overlap of atomic or hybrid orbitals of individual atoms.

The postulates of valence bond theory

1. The central metal atom/ion makes available a number of vacant orbitals equal to its coordination number.
2. These vacant orbitals form covalent bonds with the ligand orbitals.
3. A covalent bond is formed by the overlap of a vacant metal orbital and filled ligand orbitals. This complete overlap leads to the formation of a metal ligand, σ (sigma) bond.
4. A strong covalent bond is formed only when the orbitals overlap to the maximum extent. This maximum overlapping is possible only when the metal vacant orbitals undergo a process called 'hybridisation'. A hybridised orbital has a better directional characteristics than an unhybridised one.

The following table gives the coordination number, orbital hybridisation and spatial geometry of the more important geometries.

CN	Geometry		Hybridization	Example
2	Linear		sp	$[\text{Ag}(\text{NH}_3)_2]^+$
4	Tetrahedral		sp^3	$[\text{Cd}(\text{NH}_3)_4]^{2+}$
4	square planar		sp^2d	$[\text{Cu}(\text{OH}_2)_4]^{2+}$
5	trigonal bipyramid		sp^3d	$\text{Fe}(\text{CO})_5$
5	Square pyramidal		sp^2d^2	$[\text{Mn}(\text{Cl})_5]^{2-}$

Mathematics Coordination

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