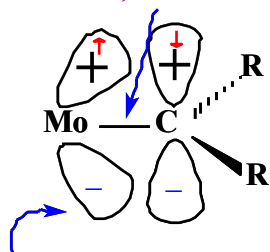
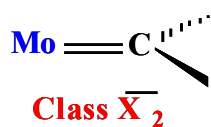


a σ -bond, X-function

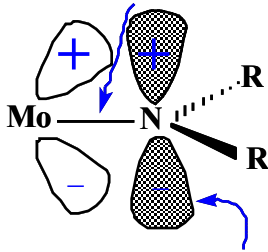


a π -bond, X-function

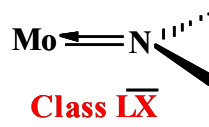


(i)

a σ -bond, X-function



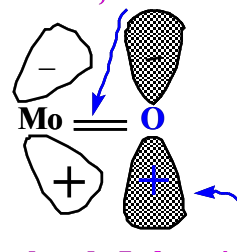
a π -bond, L-function



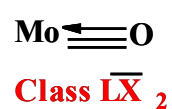
(ii)

a σ -bond, X-function

a π -bond, X-function



a π -bond, L-function



(iii)

Figure 2

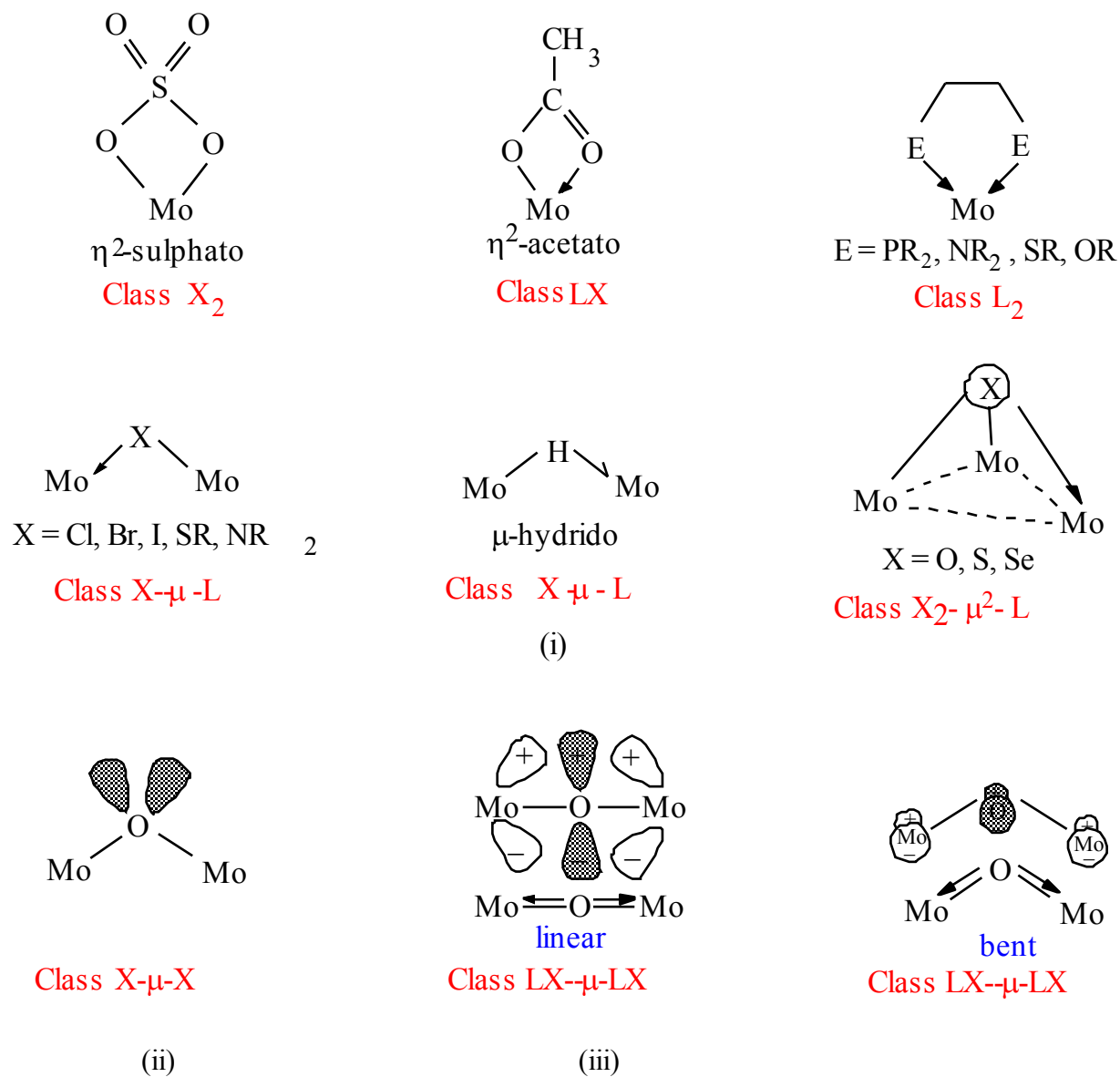


Figure 3. Examples of polydentate and bridging ligands

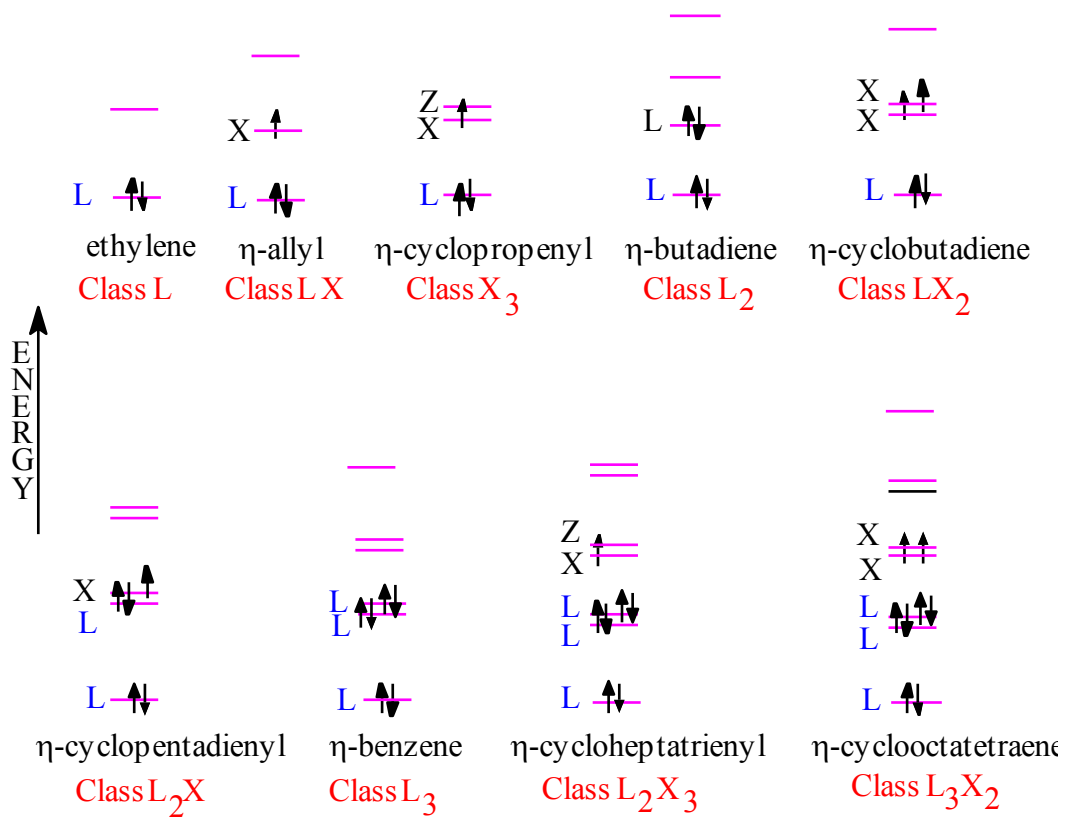


Figure 4

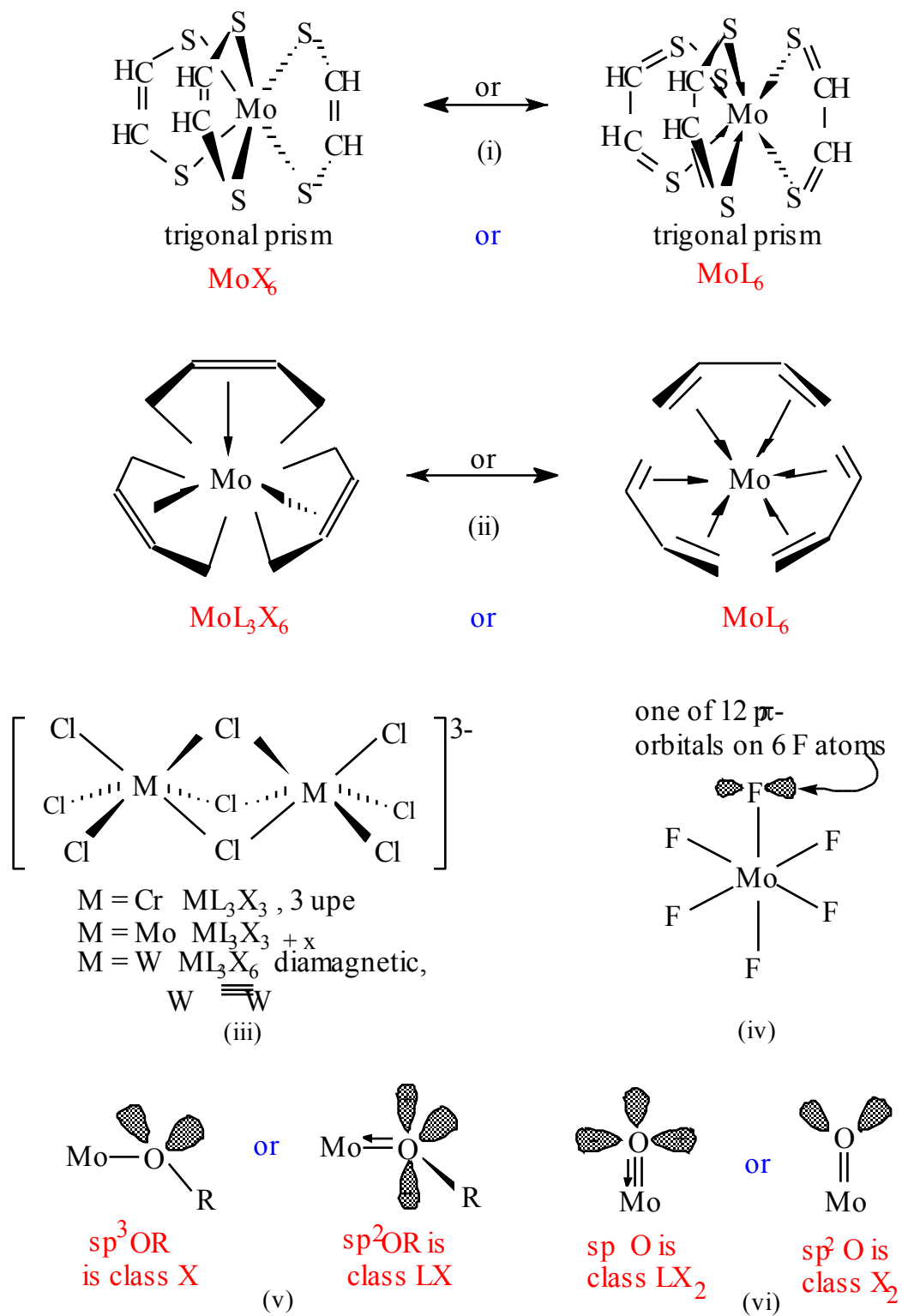
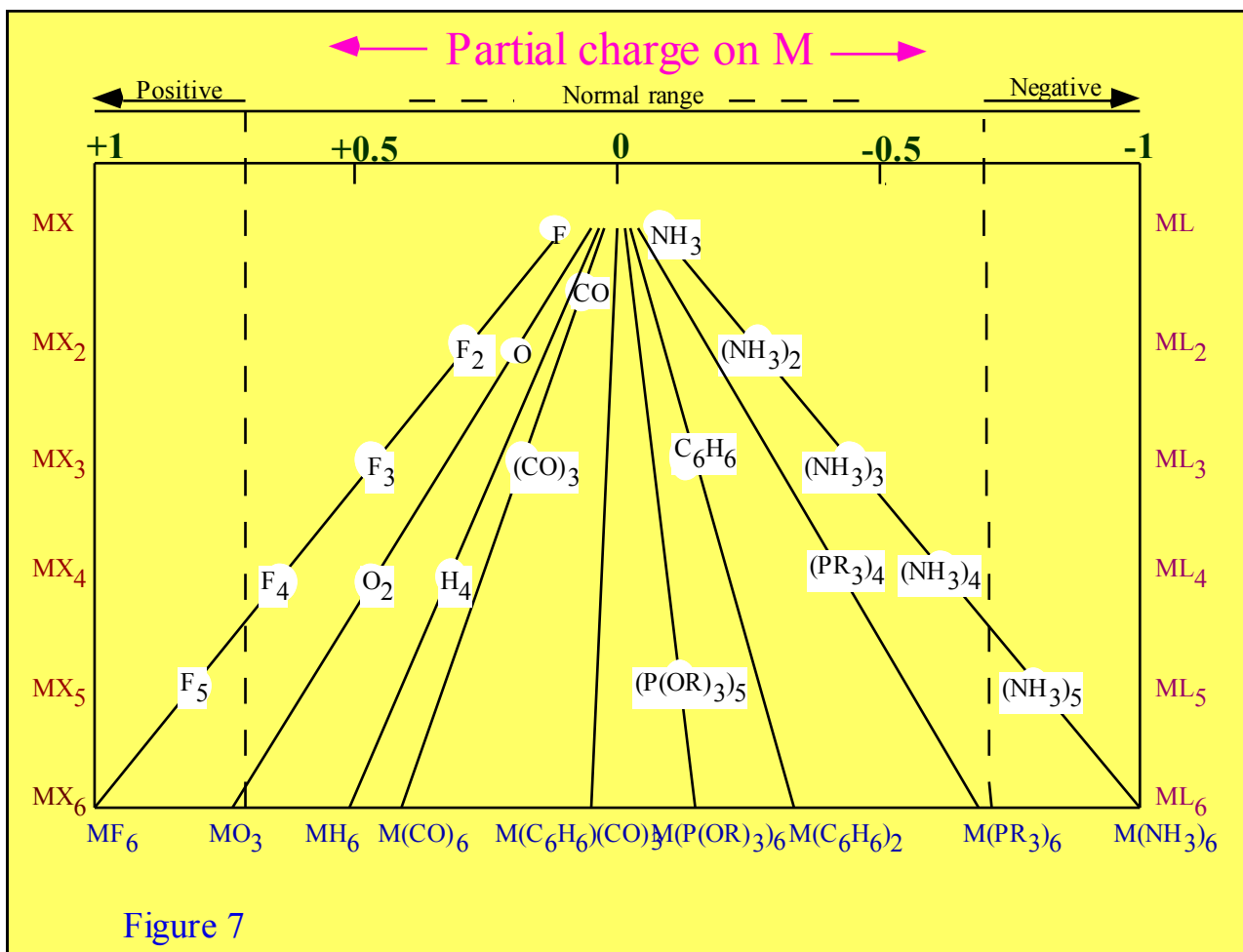


Figure 5. Non-innocent ligand systems.

		Electron Number E.N.						
		12	13	14	15	16	17	18
Valency Number	0	MoL ₃		MoL ₄		MoL ₅		MoL ₆
	1		MoL ₃ X		MoL ₄ X		MoL ₅ X	
	2	MoL ₂ X ₂		MoL ₃ X ₂		MoL ₄ X ₂		MoL ₅ X ₂
	3	×	MoL ₂ X ₃		MoL ₃ X ₃		MoL ₄ X ₃	
	4	L.B.N =5		MoL ₂ X ₄		MoL ₃ X ₄		MoL ₄ X ₄
	5		MoLX ₅		MoL ₂ X ₅		MoL ₃ X ₅	
	6	MoX ₆		MoLX ₆		MoL ₂ X ₆		MoL ₃ X ₆

L.B.N. =6
L.B.N. =7
L.B.N. =8
L.B.N. =9

Figure 6.



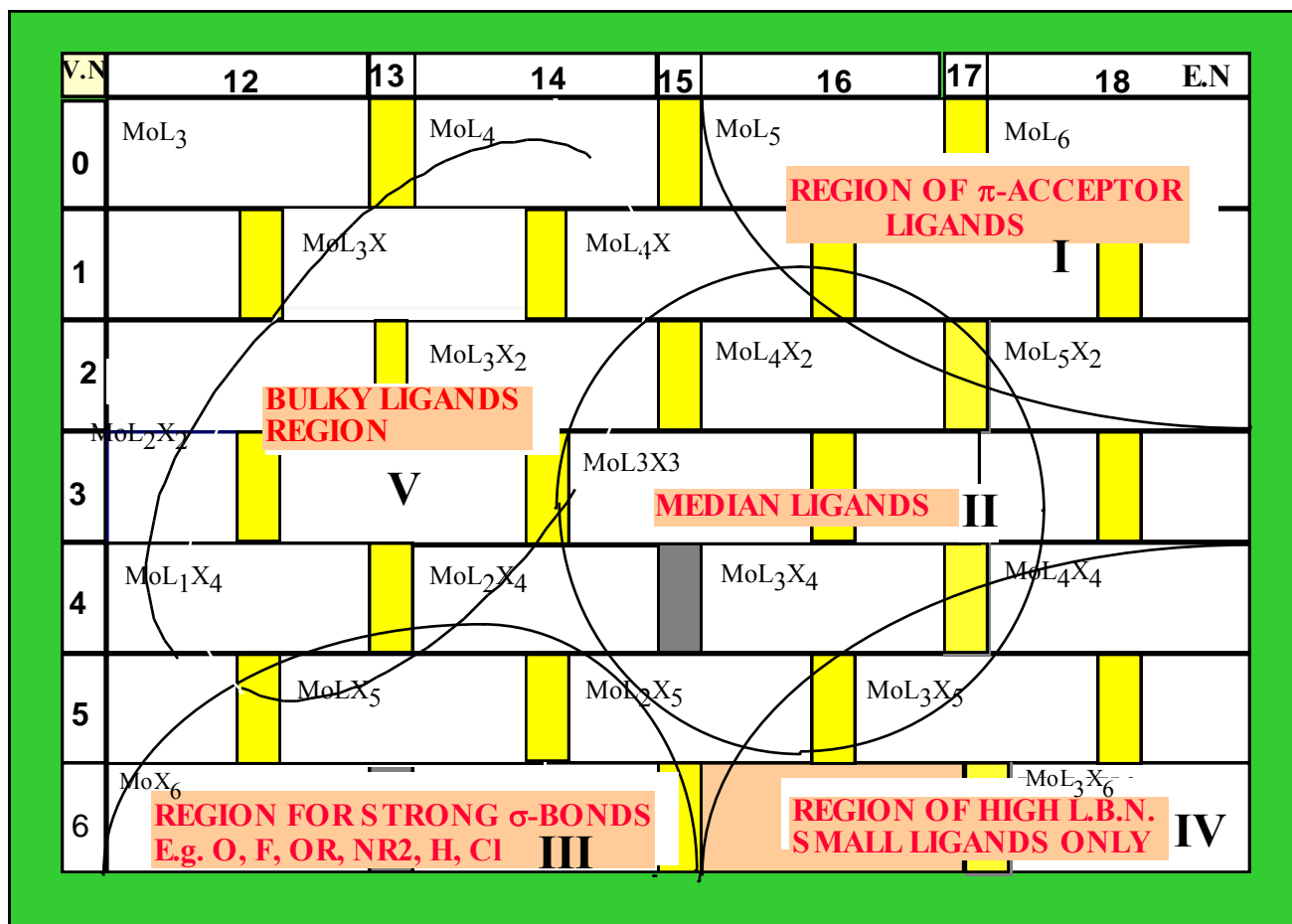


Figure 8.

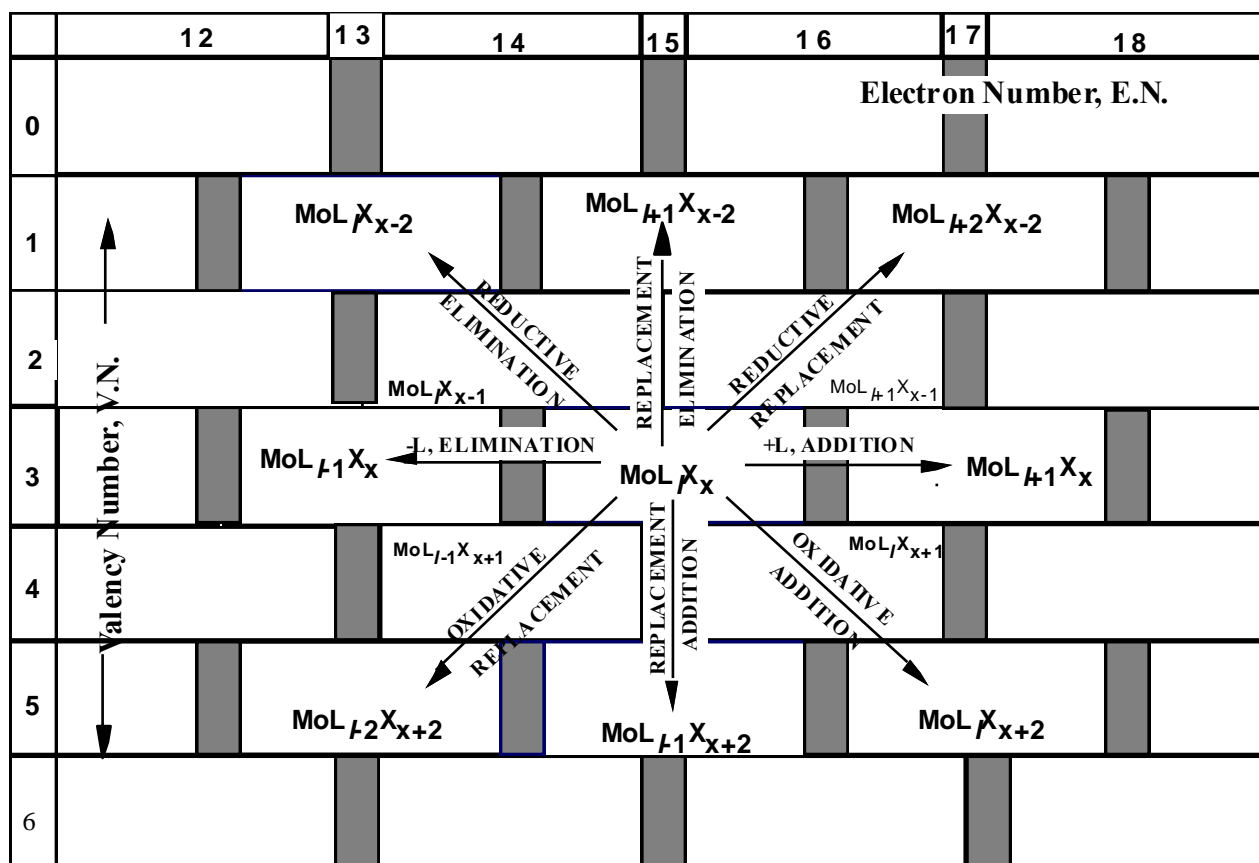


Figure 2.9 Classification of reactions by MLX class

		ELECTRON NUMBER E.N.						
		12	13	14	15	16	17	18
V A L E N C Y N U M B E R V. N.	0	ML ₃		ML ₄		ML ₅		ML ₆
	1		ML ₃ X		ML ₄ X		ML ₅ X	
	2	ML ₂ X ₂		ML ₃ X ₂		ML ₄ X ₂		ML ₅ X ₂
	3		ML ₂ X ₃		ML ₃ X ₃		ML ₄ X ₃	
	4	MLX ₄		ML ₂ X ₄		ML ₃ X ₄		ML ₄ X ₄
	5		MLX ₅		ML ₂ X ₅		ML ₃ X ₅	
	6	MX ₆		MLX ₆		ML ₂ X ₆		ML ₃ X ₆

Figure 11

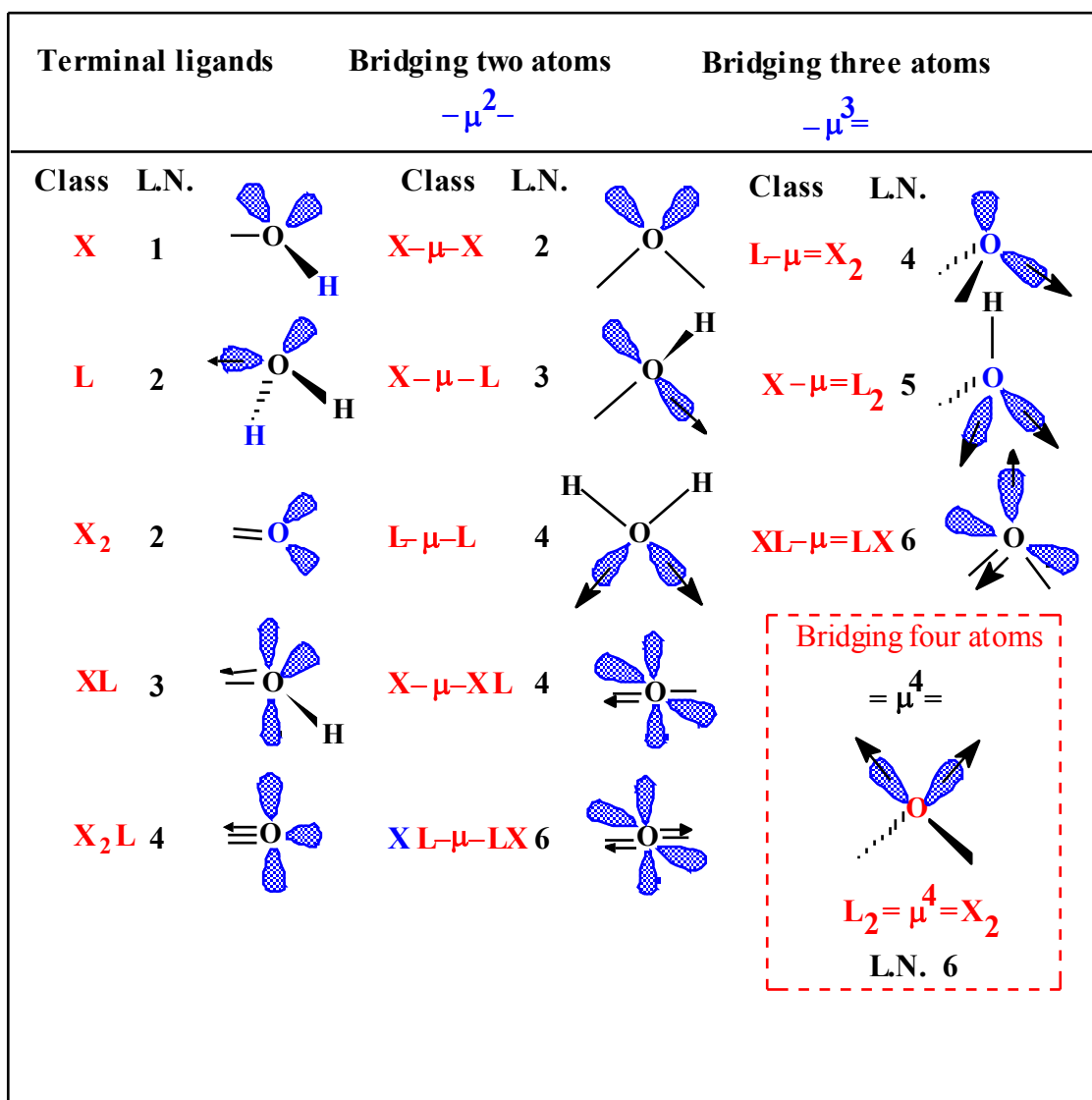


Figure 12. Classification of ligands found in aqueous systems

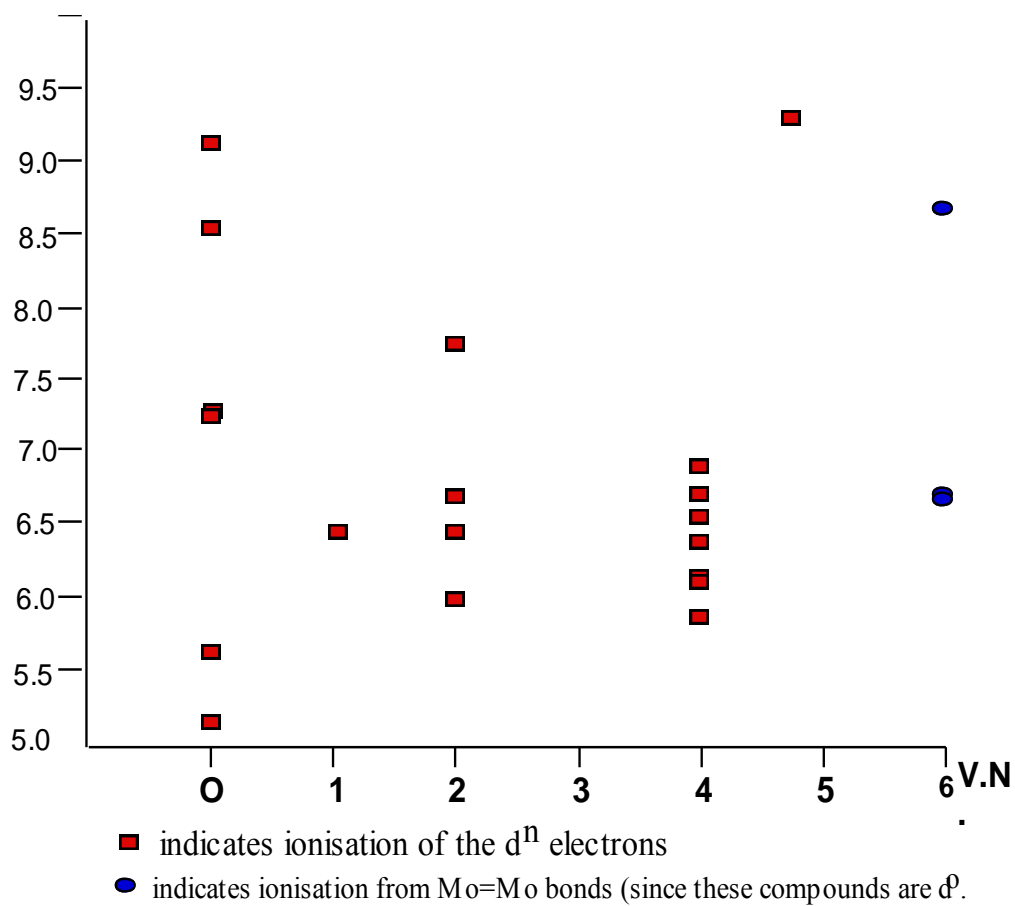


Figure 13