

Term Symbols.

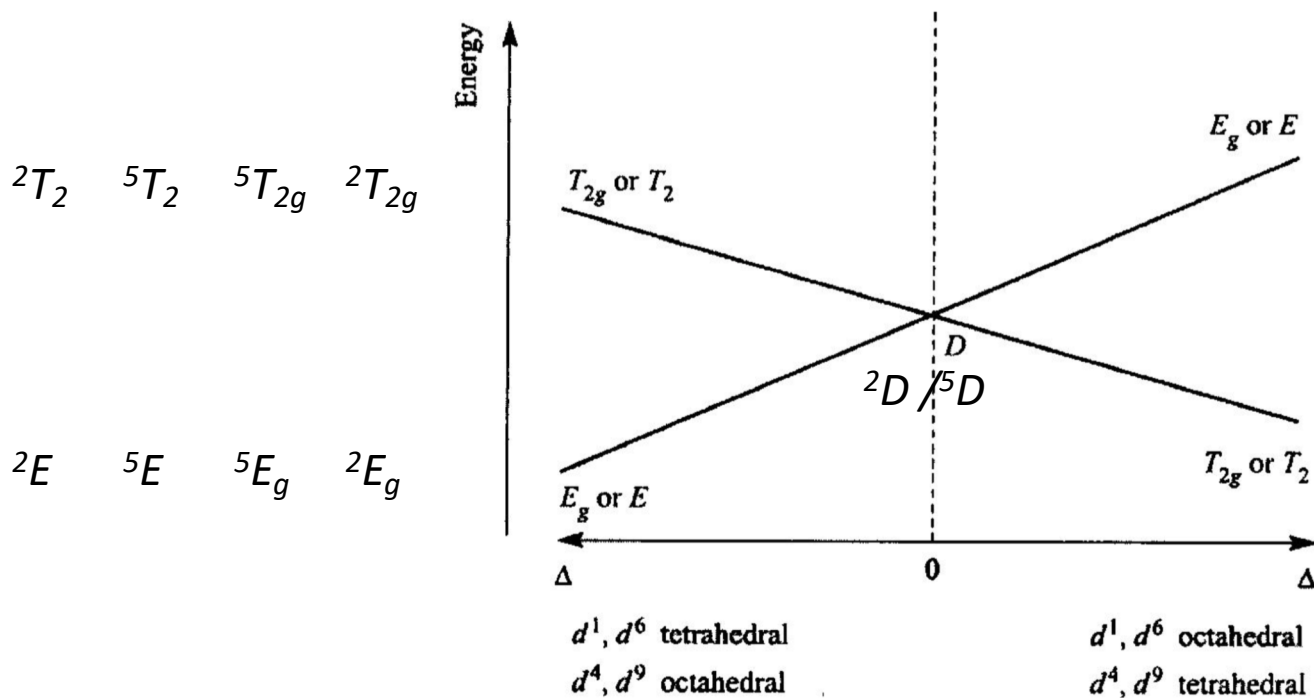
d^n	d^1	d^2	d^3	d^4	d^5	d^6	d^7	d^8	d^9	d^{10}
Term Symbol	2D	3F	4F	5D	6S	5D	4F	3F	2D	1S

Term	Irreducible Representation
S	A_{1g}
P	T_{1g}
D	$E_g + T_{2g}$
F	$A_{2g} + T_{1g} + T_{2g}$
G	$A_{1g} + E_g + T_{1g} + T_{2g}$
H	$E_g + 2T_{1g} + T_{2g}$
I	$A_{1g} + A_{2g} + E_g + T_{1g} + 2T_{2g}$

Orgel Diagram.

d^1 d^6 d^4 d^9
 T_d T_d O_h O_h

d^1 d^6 d^4 d^9
 O_h O_h T_d T_d



$2E_g$ $5E_g$ $5E$ $2E$
 $2T_{2g}$ $5T_{2g}$ $5T_2$ $2T_2$