

Direct Products 1

General rules

(a) For point groups in the lists below that have representations A , B , E , T without subscripts, read $A_1 = A_2 = A$, etc.

(b)

	g	u		/	"
g	g	u	/	/	"
u		g	"		/

(c) Square brackets [] are used to indicate the representation spanned by the antisymmetrized product of a degenerate representation with itself.

Examples

For D_{3h} $E' \times E'' = A_1'' + A_2'' + E$

For D_{6h} $E_{1g} \times E_{2g} = 2B_g + E_{1g}$.