

Crystal Structure

(6)

Space lattice	Abbreviation	effective number of lattice points in unit cell
* Simple Tetragonal	ST	1
Body centered Tetragonal	BCT	2
Simple orthorhombic	SO	1
End centred orthorhombic	ECO	2
Body centred orthorhombic	BCO	2
Face centred orthorhombic	FCO	4

Lattice parameters required to specify fully the unit of each crystal system

Crystal system	To be specified		Total number of parameters
	axes	angles	
cubic	a	—	1
Tetragonal	a, c	—	2
Orthorhombic	a, b, c	—	3
Rhombohedral	a	α	2
Hexagonal	a, c	—	2
Monoclinic	a, b, c	β	4
Triclinic	a, b, c	α, β, γ	6

Crystal	No. of nearest neighbours	closest distance of approach or atomic diameter
SC	6	a
BCC	8	$a\sqrt{3}/2$
FCC	12	$a/\sqrt{2}$