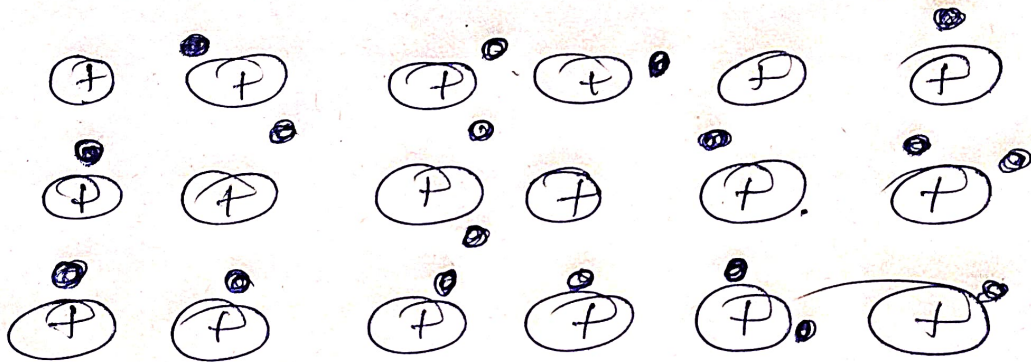


Metallic bonding

Metallic bond is a term used to describe the collective sharing of a sea of valence electrons between several positively charged metal ions.

Metallic bonding is a type of chemical bonding & is responsible for several characteristic properties of metals such as their shiny lustre, their malleability and their conductivities for heat & electricity.



Properties →

- 1) Electrical Conductivity
- 2) Thermal Conductivity
- 3) Malleability & ductility
- 4) Metallic lustre
- 5) High melting & boiling points

Metallic bonds are not broken when the metal is heated into the melt state. Instead, these bonds are weakened causing the ordered array of metal ions to lose their definite, rigid structure & become liquid. However these bonds are completely broken when the metal is heated to its boiling point.