
Types of impurities on the basis of number of valance electrons used to dope extrinsic semi conductors

- Tri valent
- Penta valent

Cause of doping of extrinsic semi conductors in

- Increase electrical conductivity

Extrinsic semi conductors

Pure semi conductors doped with tri valent or penta valent impurities

Source for formation of extrinsic semi conductors

Pure semiconductors

Doping in semi conductors

Add impurity atom in pure semi conductor

Ratio of impurity atom to semi conductor atoms in extrinsic semi conductors

$$1 : 10^8$$

Basis of division of extrinsic semi conductors

Nature of impurity

List of division of extrinsic semi conductors

- N type
- P type