

## Intrinsic semiconductor

1. A pure, perfect semiconductor with an ideal crystal structure is called an intrinsic semiconductor.
2. Close to 0K, each tetravalent semiconductor atom has a complete octet of valence electrons by forming four covalent bonds with its nearest neighbours.

## Extrinsic semiconductor

1. An intrinsic semiconductor doped with a small and controlled amount of a specific dopant, i.e., impurity atoms, is called an extrinsic semiconductor.
2. Close to 0K, each substitutional impurity atom in a tetravalent semiconductor has an incomplete bond, with the hole or the surplus electron weakly bound to the dopant atom.

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