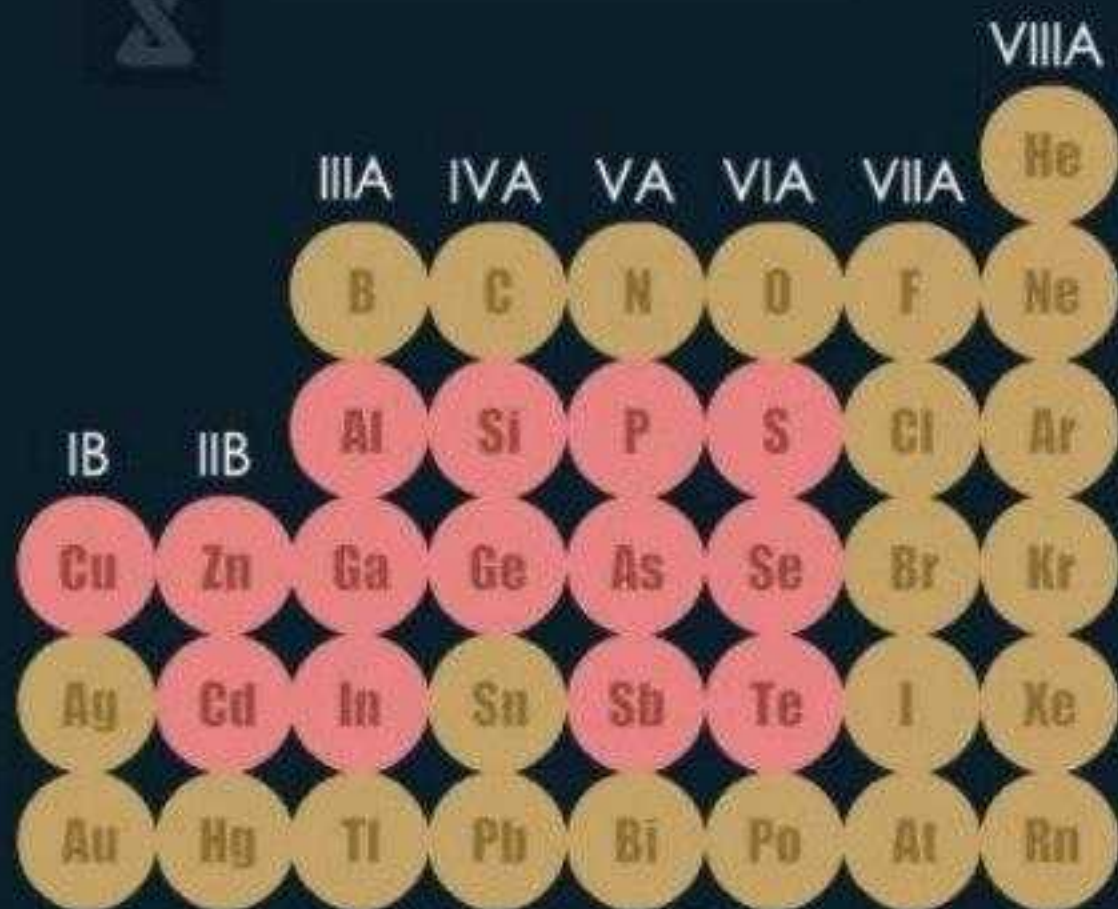


N-TYPE SEMICONDUCTOR

P-TYPE

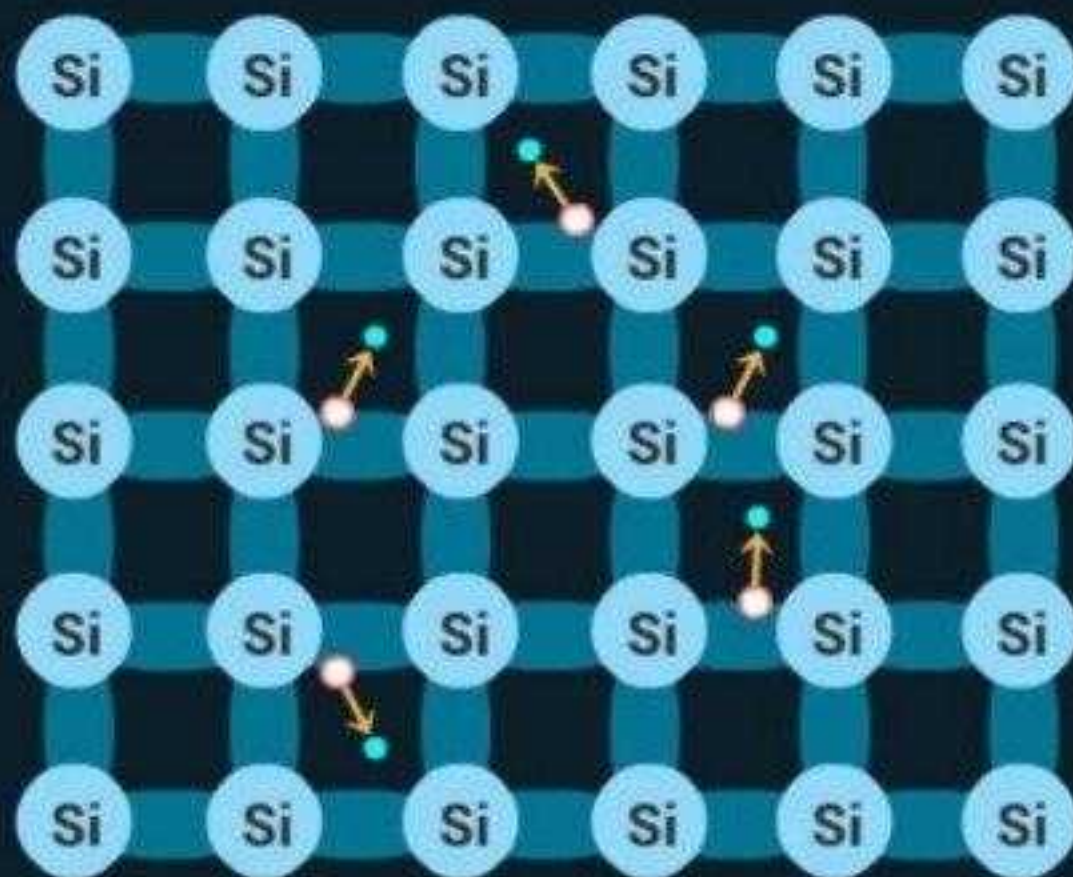
SEMICONDUCTOR



A periodic table with elements in the 4th group (IVA) highlighted in red. The groups are labeled at the top: IIIA, IVA, VA, VIA, VIIA, and VIIIA. The elements in the 4th group are: C, Si, Ge, Sn, and Pb. Other elements shown include B, N, O, F, Ne, Al, P, S, Cl, Ar, Ga, As, Se, Br, Kr, In, Sb, Te, I, Xe, Hg, Tl, Bi, Po, At, and Rn.

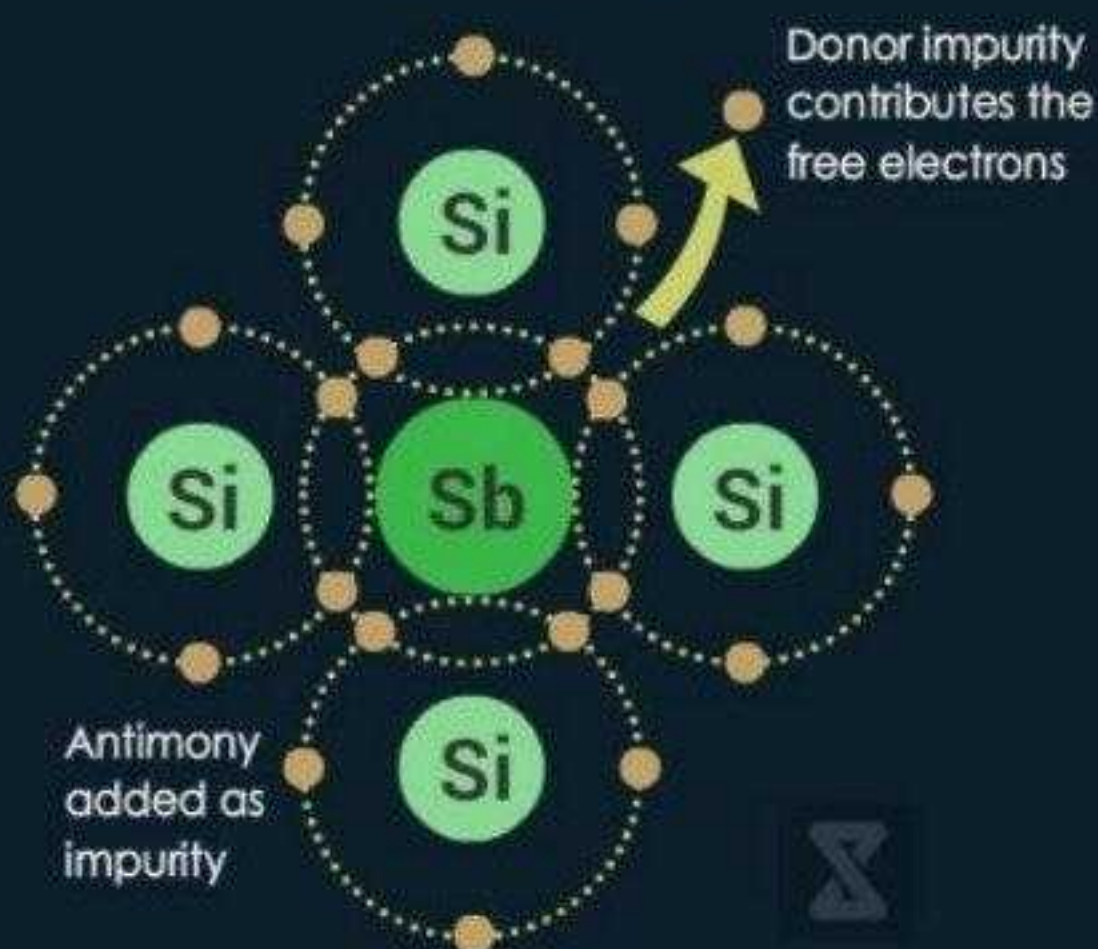
The elements of 4th group of the periodic table are called semiconductors.
Eg: Germanium, Silicon, etc.

INTRINSIC SEMICONDUCTOR



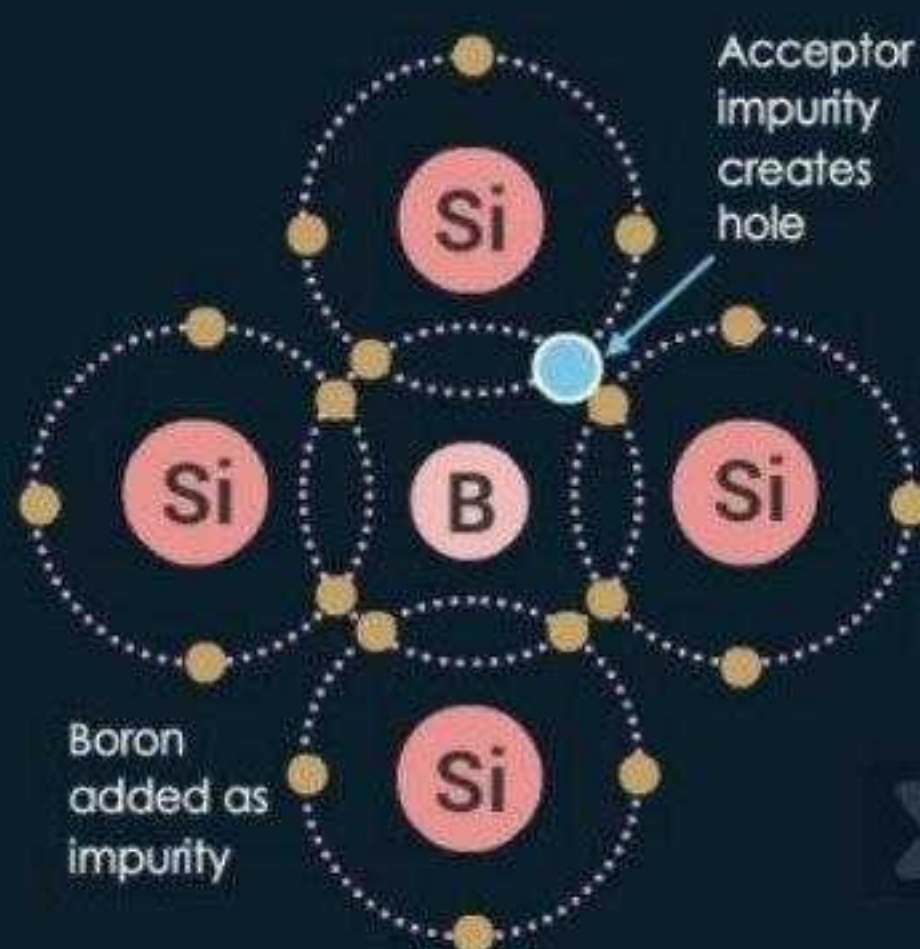
Pure semiconductor is called intrinsic semiconductor.

N-Type



When impurity of 5th group is added in an intrinsic semiconductor, then N-type semiconductor is formed.

P-Type



When impurity of 3rd group is added in an intrinsic semiconductor, then P-type semiconductor is formed.

