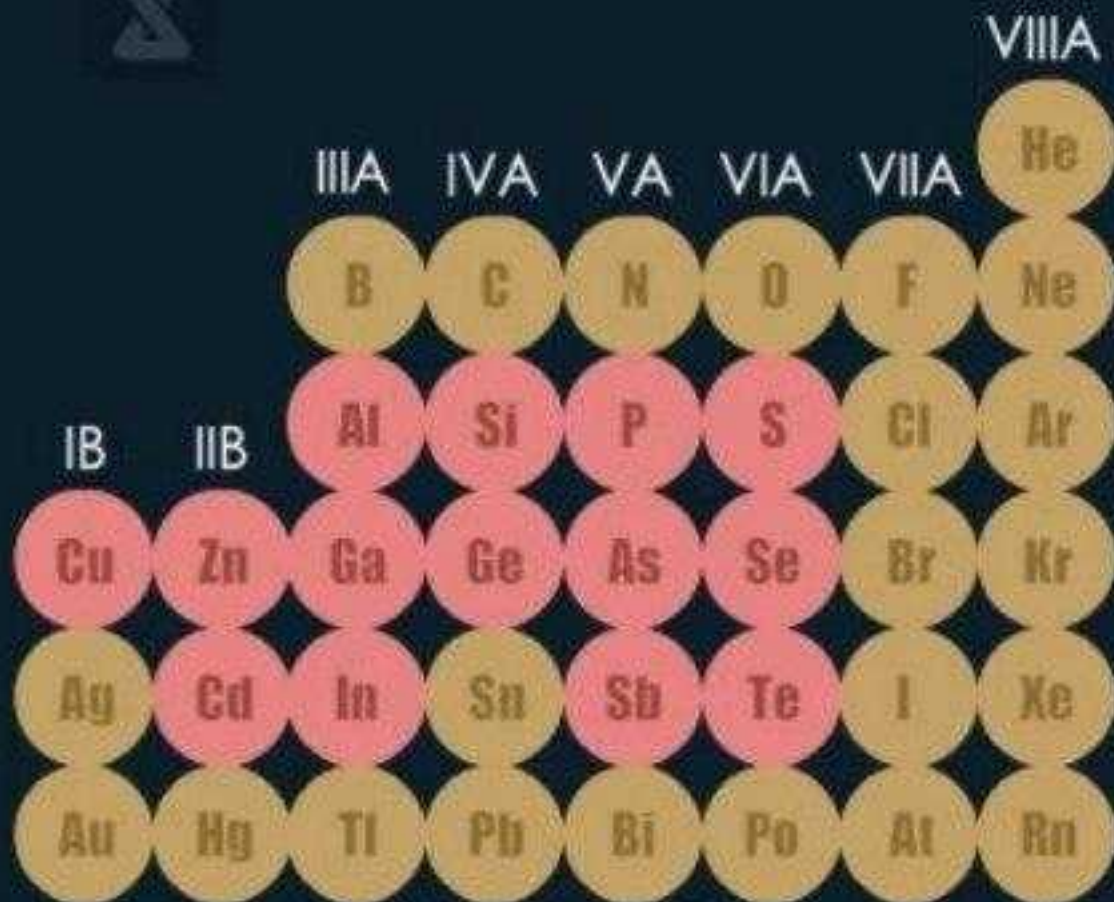


N-TYPE SEMICONDUCTOR P-TYPE

SEMICONDUCTOR

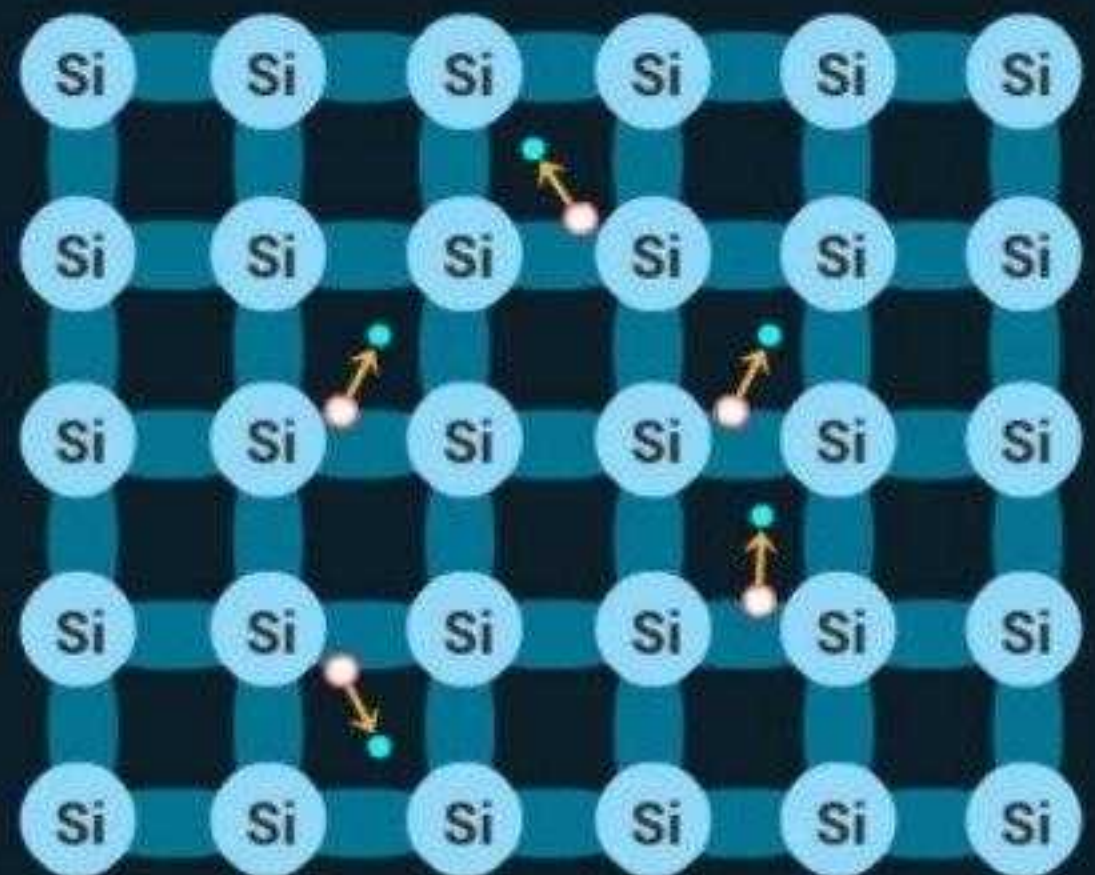


A periodic table with elements in the 4th group (IVA) highlighted in red. The groups are labeled at the top: IB, IIB, IIIA, IVA, VA, VIA, VIIA, and VIIIA. The elements in the 4th group are Si, Ge, Sn, and Pb.

IB	IIB	IIIA	IVA	VA	VIA	VIIA	VIIIA
		B	C	N	O	F	He
		Al	Si	P	S	Cl	Ar
Cu	Zn	Ga	Ge	As	Se	Br	Kr
Ag	Cd	In	Sn	Sb	Te	I	Xe
Au	Hg	Tl	Pb	Bi	Po	At	Rn

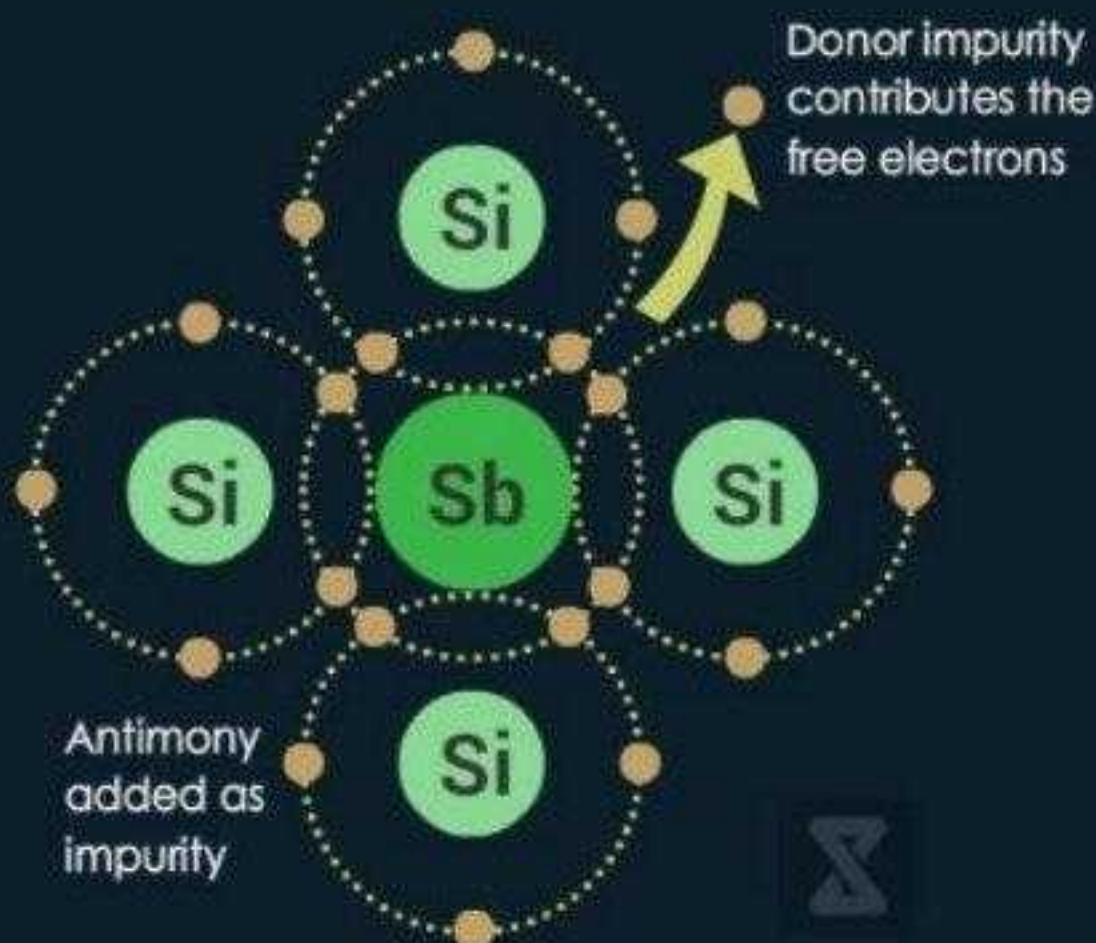
The elements of 4th group of the periodic table are called semiconductors.
Eg: Germanium, Silicon, etc.

INTRINSIC SEMICONDUCTOR



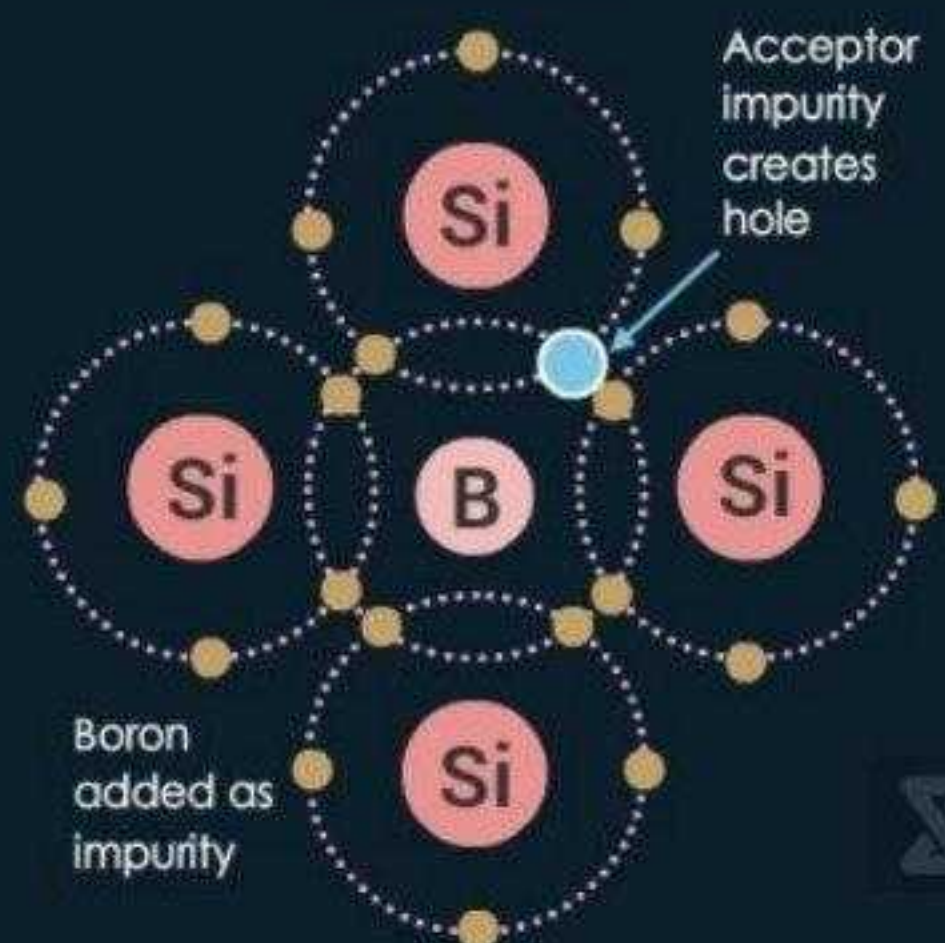
Pure semiconductor is called intrinsic semiconductor.

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.