# N-TYPE **SEMICONDUCTOR**



# P-TYPE

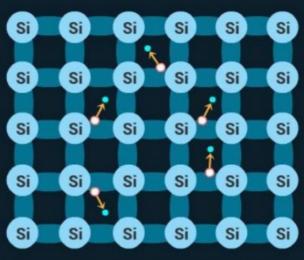
#### **SEMICONDUCTOR**



The elements of 4th group of the periodic table are called semiconductors.

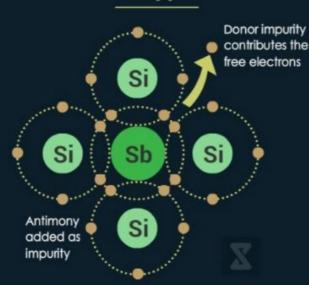
Eg: Germanium, Silicon, etc.

#### INTRINSIC SEMICONDUCTOR



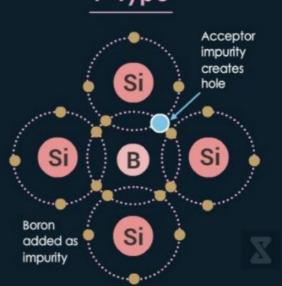
Pure semiconductor is called intrinsic semiconductor.

## 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.

