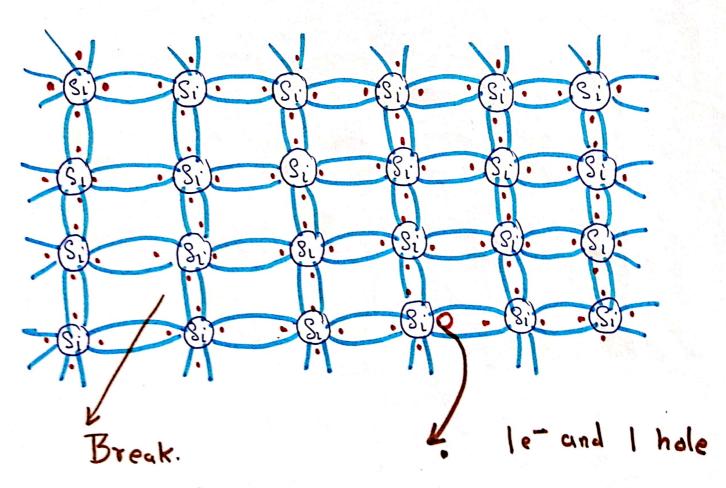
PURE SEMICONDUCTOR



2e and 2 holes

Majority Carrier (electron)
Minority Courier (Hole)

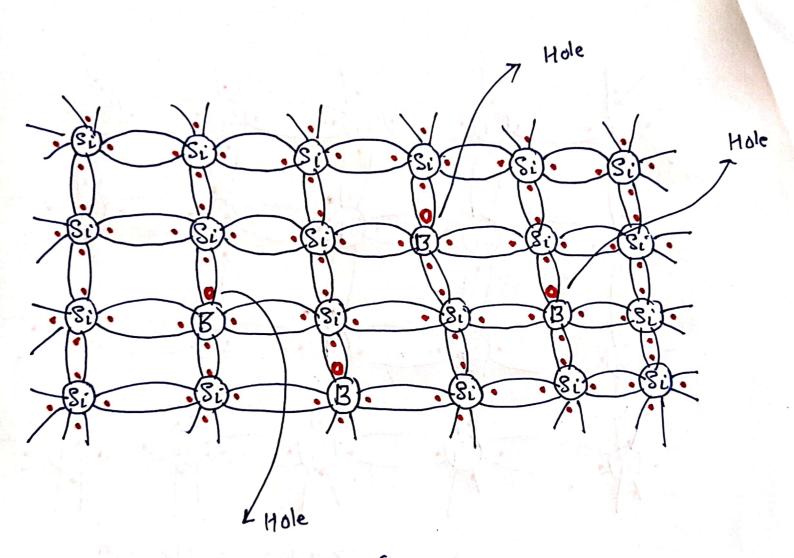
Mass Action Law: - - ve and the Carrier Conc.

Phosphorous of Valence
Antimony
Arsenic.

Donar atom = No

Minority carrier(b) =
$$\frac{hi^2}{N_D(migierity)}$$
 $\frac{N_D \sim h}{Courrier}$

P- type Semiconductor group - 13 element (B, Al, Ga --)



Majority Carrier (Hole) Minority Couvier (electron)