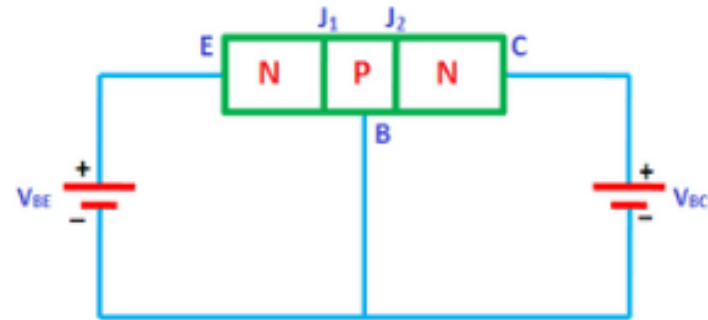
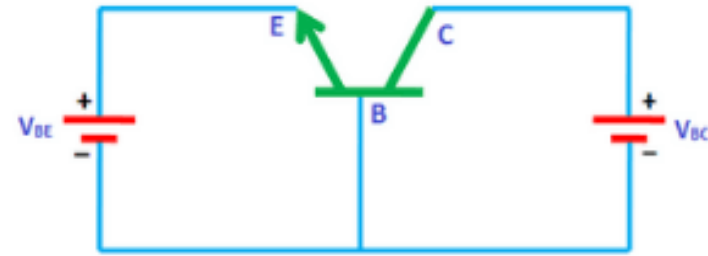
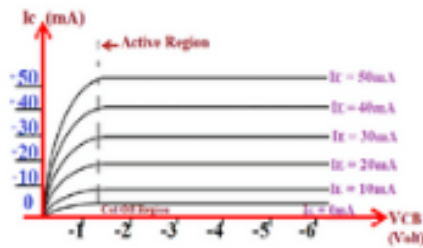
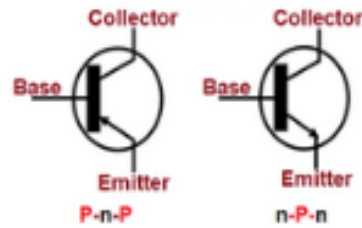
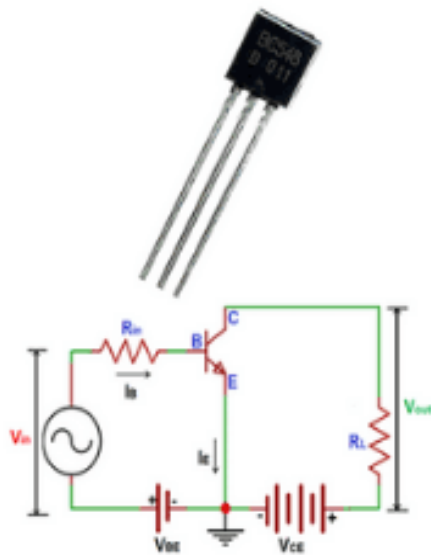


Chapter-6

(The construction and operation of BJT)

Presented by
Hasan Murad Munna

What are the Applications of Bipolar Junction Transistor?



Cutoff mode

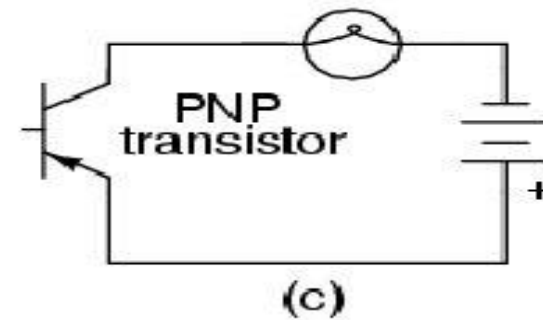
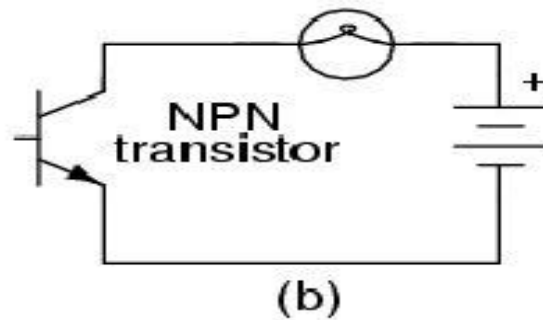
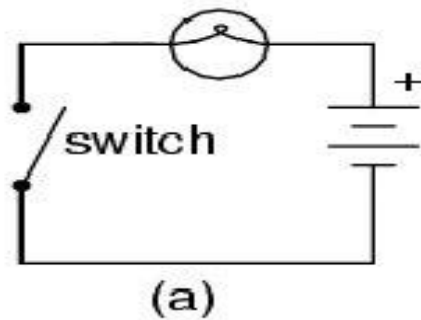


Electrical 4 U

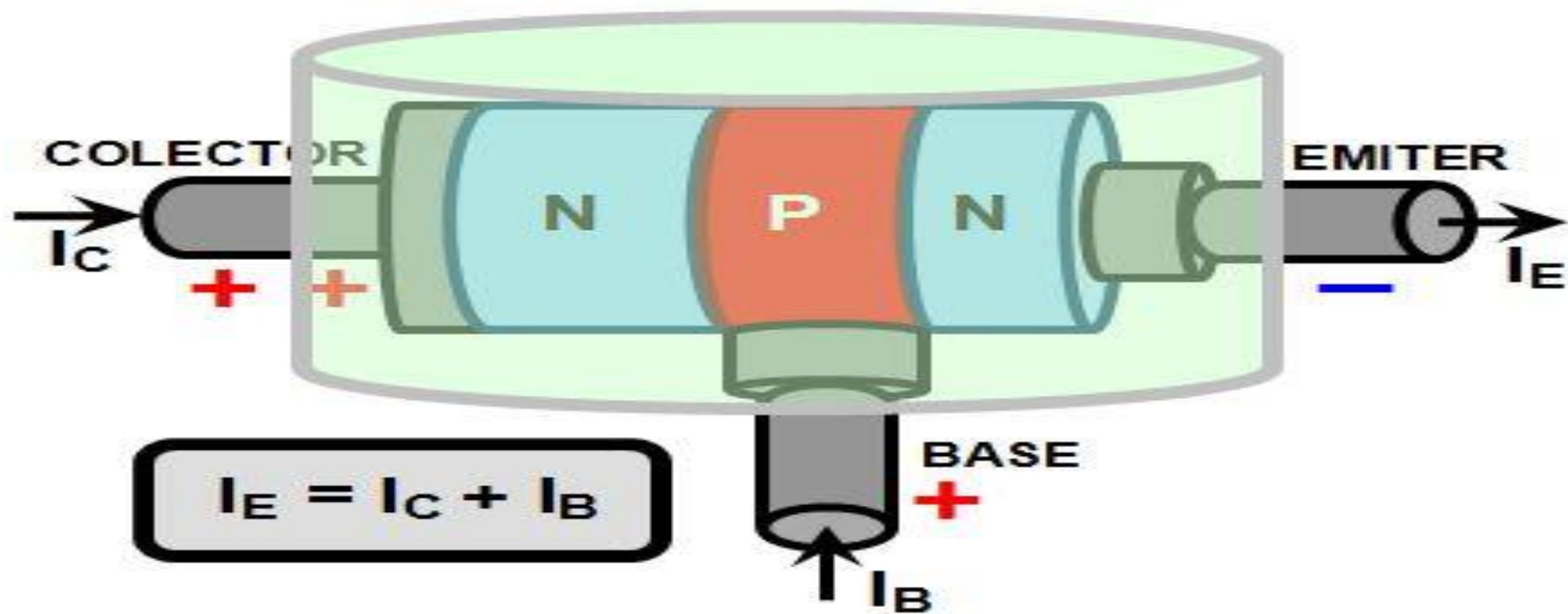
BJT Applications

BJT Switch

- Offer lower cost and substantial reliability over conventional mechanical relays.
- Transistor operates purely in a saturated or cutoff state (on/off)
- This can prove very useful for digital applications (small current controls a larger current)



NPN BJT TRANSISTOR



NPN	PNP
One P-type semiconductor is sandwiched between the two N-type semiconductors.	It is made of up two P-type material layers with N-type sandwiched between them.
From collector terminal to emitter terminal, the current flows.	From emitter to collector terminal, the current flows
The current flow from the collector is generated by keeping a +ve voltage there.	The current flow from the emitter to collector is generated at emitter terminal by keeping a +ve voltage there.
When the current is reduced in the base, the transistor doesn't function across the collector terminal and switches OFF	When a current is present at the base of a PNP transistor, then the transistor switches OFF.
With the increase in current in the base terminal, the transistor switches	When there is no current flow at the base terminal the transistors switch