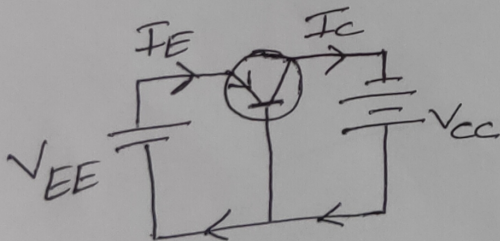
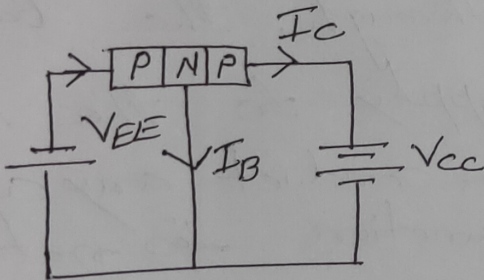


Transistor Biasing

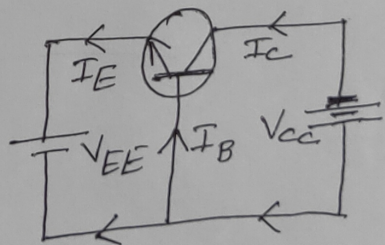
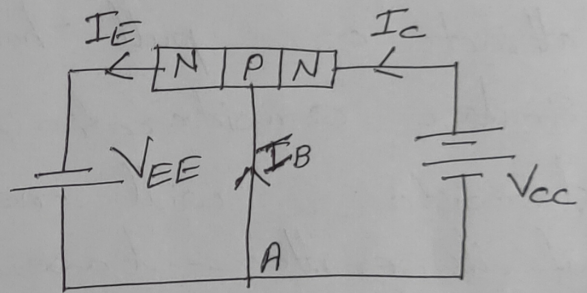
For proper working of a transistor, it's essential to apply voltages of correct polarity across its two junctions. It is worthwhile to remember that for normal operation;

1. Emitter - base junction is always forward-biased and
2. collector - base junction is always reverse-biased.



(a)

Fig



(b)

Fig

This type of biasing is known as FR biasing.

In figure, two batteries respectively, provide the dc emitter supply voltage V_{EE} and collector supply voltage V_{CC} for properly biasing the two junctions of the transistor. In fig. (a) positive terminal of V_{EE} is connected to p-type emitter in order to repel or push holes into the base.

The negative terminal of V_{CC} is connected to the collector so that it may attract or pull holes through the base. Similar considerations apply to the NPN transistor. It will never conduct any current, if its emitter-base junction is not forward-biased.

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