BASE BIAS CE AMPLIFIER LECTURE

Lecture-34

TDC PART -3
PAPER 6(GROUP B)
Chapter -6
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Base Bias

A simple defination :

- The direct voltage that is applied to the major ity-carrier contact (base) of a transistor.

CE Amplifier

- The common emitter amplifier is a three basic single-stage bipolar junction transistor and is used as a voltage amplifier. The input of this amplifier is taken from the base terminal, the output is collected from the collector terminal and the emitter terminal is common for both the terminals.

Working of Common Emitter Amplifier

- It consists of voltage divider biasing, used to supply the base bias voltage as per the necessity. The voltage divider biasing has a potential divider with two resistors are connected in a way that the midpoint is used for supplying base bias voltage.

Type of biasing is used in CE amplifier

- The single stage **common emitter amplifier** circuit shown above uses what is commonly called "Voltage Divider **Biasing**". This **type of biasing** arrangement uses two resistors as a potential divider network across the supply with their center point supplying the required Base **bias** voltage to the transistor.

CE amplifier work

- When a signal is applied across the emitter-base junction, the forward bias across this junction increases during the upper half cycle. This leads to increase the flow of electrons from the emitter to a collector through the base, hence increases the collector current.