DIFFERENTIAL AMPLIFIER WITH SWAMPING RESISTORS

By using external resistors R'E in series with each emitter, the dependence of voltage gain on variations of r'e can be reduced. It also increases the linearity range of the differential amplifier shows the differential amplifier with swamping resistor R'E. The value of R'E is usually large enough to swamp the effect of r'E.





Advantages of the swamping resistors is:

Input resistance is high

Increase the linearity range of the differential amplifier

Minimization of the changes in the transistor parameters due to the temperature