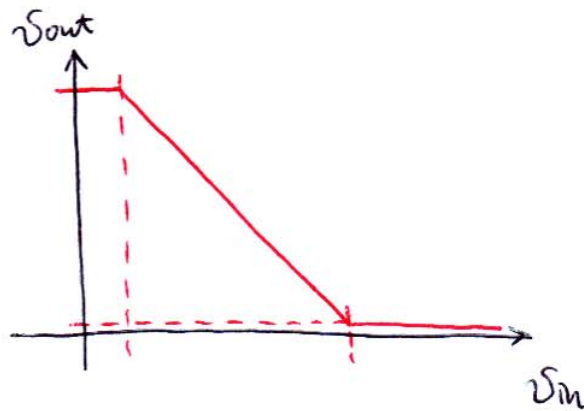
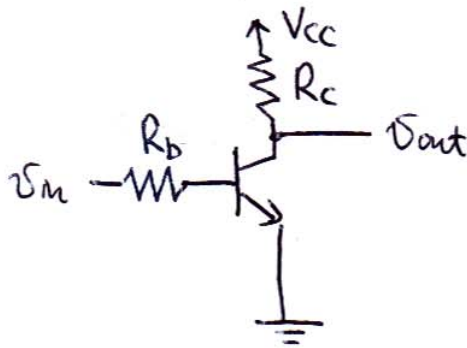
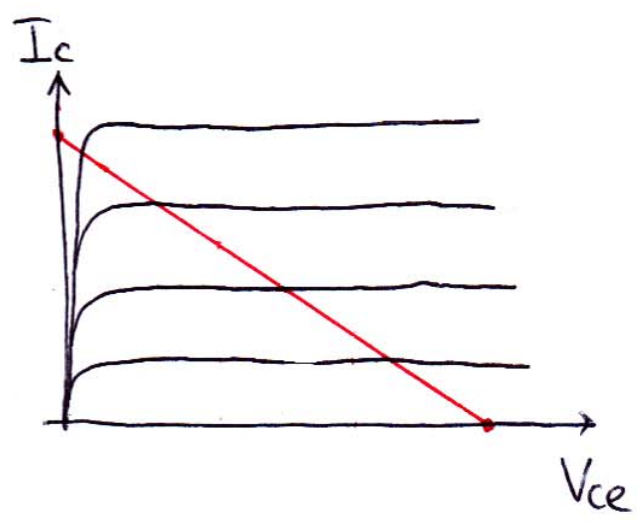


Lecture 17

Transistor circuits (contd)Transistor amplifier

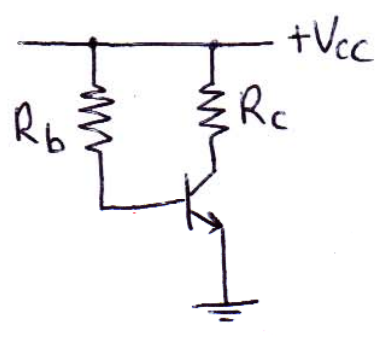
suppose $i_b = I_{b0} + i_{b1} \sin \omega t$



-
-

Transistor biasing

=
simple



Problem:

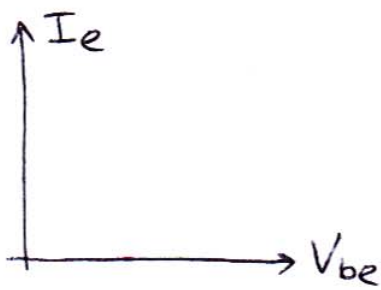
Solution:

H-biasing

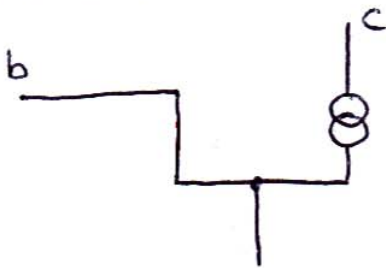
Transistor small signal equivalent

Recall $I_b = f(V_{be})$

④



equivalent circuit



Transistor circuit analysis

usually $\left| \frac{\Delta V}{V_{ce}} \right| \ll 1$, then analysis can be separated

1)

2)