

1A. FETs AND BJTs ARE CCDs

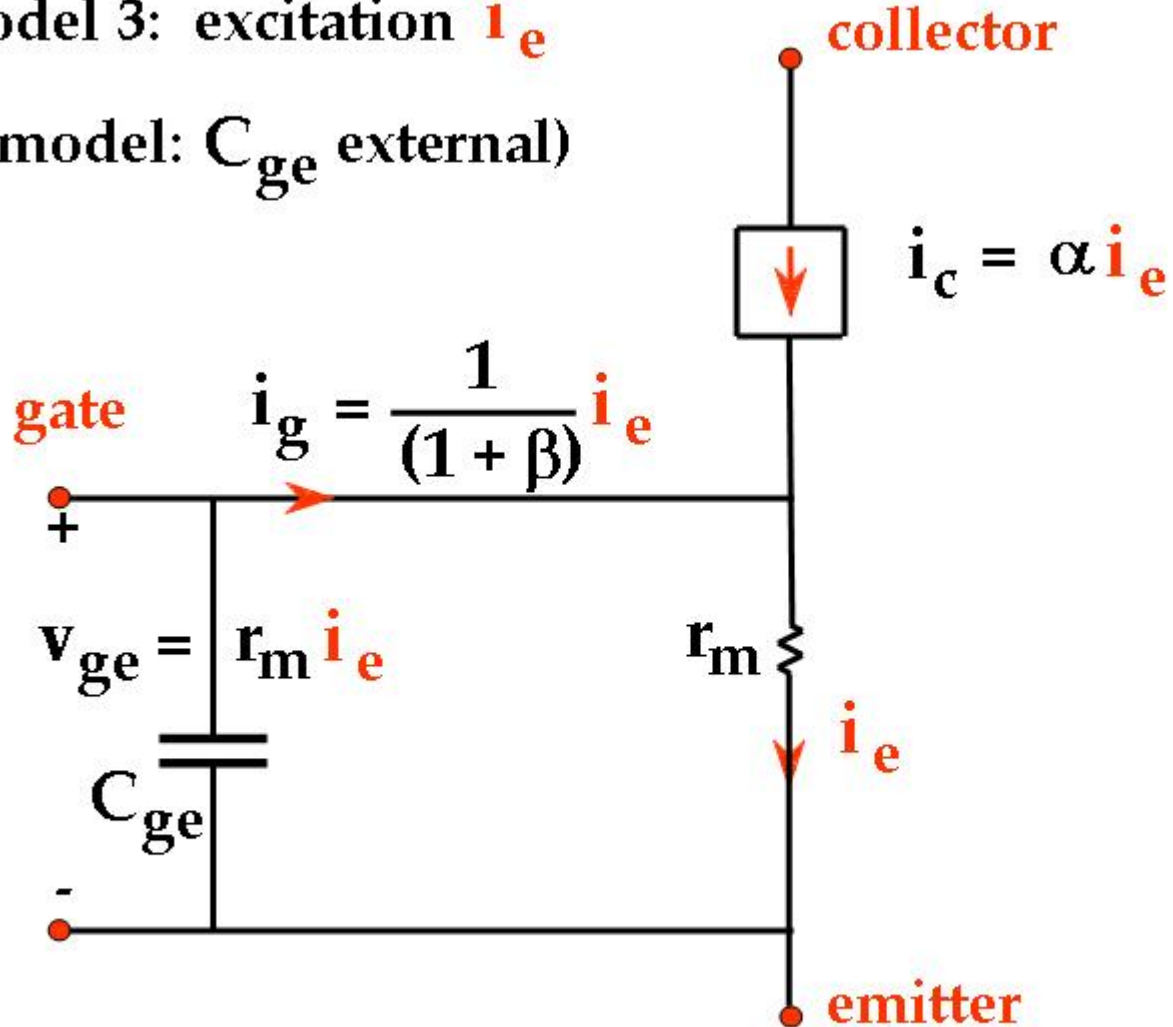
Field-Effect Transistors and Bipolar Junction Transistors
are Charge-Controlled Devices

Both can be represented by the same small-signal equivalent
circuit model

Recommended model for both the FET and the BJT:

Model 3: excitation i_e

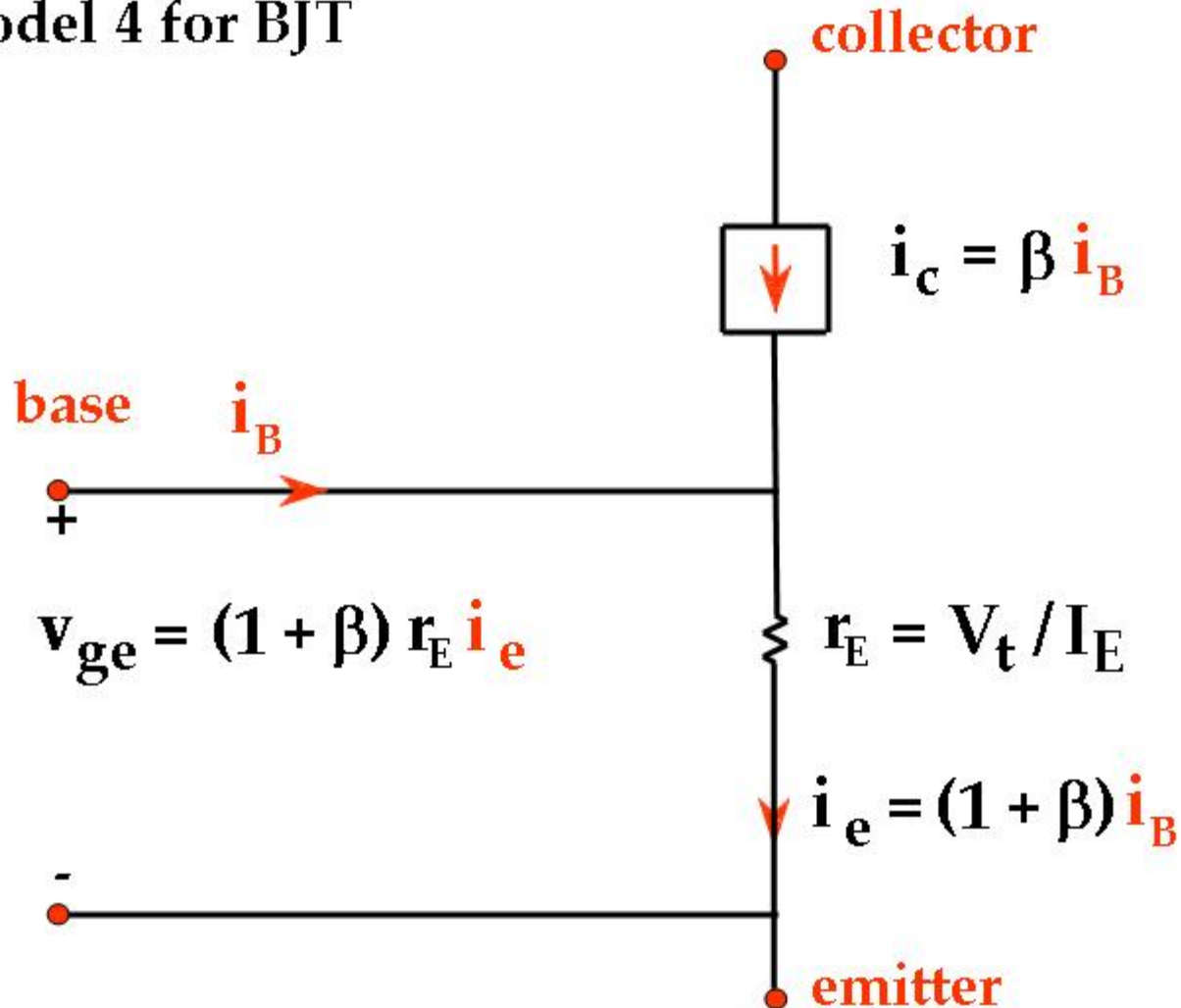
(T model: C_{ge} external)



For the FET, set $\alpha=1, \beta=\infty$

Conventional terminology:

Model 4 for BJT



This is the model used throughout the TT DVD

Addition of some "parasitic" elements: the Pi Model

