

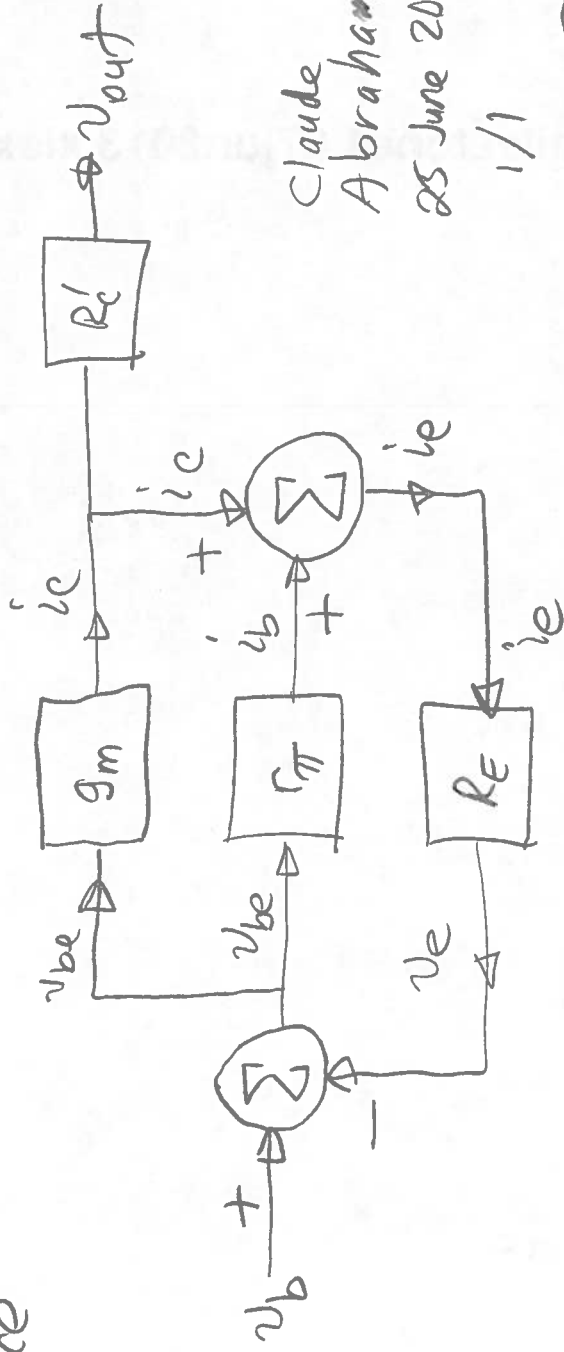
transconductance

gain block

diagram

w/ R_E

feedback



Claude
Abraham
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$$i_c = g_m v_{be}$$

$$i_c = h_{fe} i_b$$

$$r_{\pi} = v_{be} / i_b$$

interaction $\Rightarrow h_{fe} = g_m r_{\pi}$

current gain

block diagram

w/ R_E

feedback

