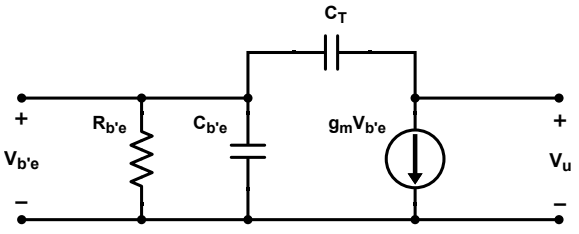
0.1 Parametri Y

$$Y_{IN} = Y_I - \frac{Y_F Y_R}{Y_O + Y_L}$$
$$Y_{OUT} = Y_O - \frac{Y_F Y_R}{Y_I + Y_S}$$

$$G_P = \frac{|Y_F|^2}{|Y_L + Y_O|^2} \frac{g_L}{g_{IN}}$$
$$G_A = \frac{|Y_F|^2 \, g_S}{\mathfrak{Re}\left\{(Y_O Y_S + Y_O Y_I - Y_R Y_F)(Y_I + Y_S)^*\right\}}$$
$$G_T = \frac{4 g_S g_L |Y_F|^2}{|(Y_S + Y_I)(Y_O + Y_L) - Y_R Y_F)|^2}$$
$$K = \frac{2(g_I + g_S)(g_O + g_L)}{\mathfrak{Re}\left\{Y_R Y_F\right\} + |Y_R Y_F|}$$
$$C = \frac{|Y_R Y_F|}{2 g_I g_O - \mathfrak{Re}\left\{Y_R Y_F\right\}}$$

$$g_{S_{opt}} = \frac{\sqrt{\left[2 g_I g_O - \mathfrak{Re}\left\{Y_R Y_F\right\}\right]^2 - |Y_R Y_F|^2}}{2 g_O}$$
$$g_{L_{opt}} = g_{S_{opt}} \frac{g_O}{g_I}$$
$$b_{S_{opt}} = -b_I + \frac{\mathfrak{Im}\, Y_R Y_F}{2 g_O}$$
$$b_{L_{opt}} = -b_O + \frac{\mathfrak{Im}\, Y_R Y_F}{2 g_I}$$



$$Y_{Ie} = {}^1/_{R_{b'e}} + j\omega(C_{b'e} + C_T)$$
$$Y_{Re} = -j\omega C_T$$
$$Y_{Fe} = g_m - j\omega C_T$$
$$Y_{Oe} = j\omega C_T$$