

$$\frac{Z_{i}}{1+T} = \frac{Z_{i}a}{1+T}$$

$$\frac{Z_{0}}{1+T} = \frac{Z_{0}a}{1+T}$$

$$A_{C_{12}} = \frac{\alpha}{1 + \alpha - 1} = \frac{1}{3} \cdot \frac{1}{1 + \frac{1}{T}} = \frac{1}{3} \cdot \frac{T}{1 + T}$$

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$$v_1 = z_1 \cdot v_1 + z_2 \cdot v_2$$
 $v_2 = z_2 \cdot v_1 + z_2 \cdot v_2$

$$\frac{2}{12} \left(\frac{v_1}{i_2} \right) = 0$$

$$V_{S} = (Z_{S} + Z_{11}\alpha + Z_{11}) \cdot i_{1} + (Z_{12}\alpha + Z_{11}) \cdot i_{0}$$

$$0 = (Z_{21}\alpha + Z_{21}) \cdot i_{1} + (Z_{22}\alpha + Z_{21}) \cdot i_{0}$$

$$\frac{1}{2} x_1 = \frac{v_2}{\hat{i}_1} \quad | \quad \hat{v}_2 = 0$$

$$\frac{1}{2} x_2 = \frac{v_2}{\hat{i}_2} \quad | \quad \hat{v}_3 = 0$$

$$\frac{v_s}{io} = -\frac{z_i z_o}{z_{z_i a} + z_{z_i j}} + (z_{na} + z_{nj}) ; \quad \Delta_{c_{iL}} = \frac{i_o}{v_s}$$

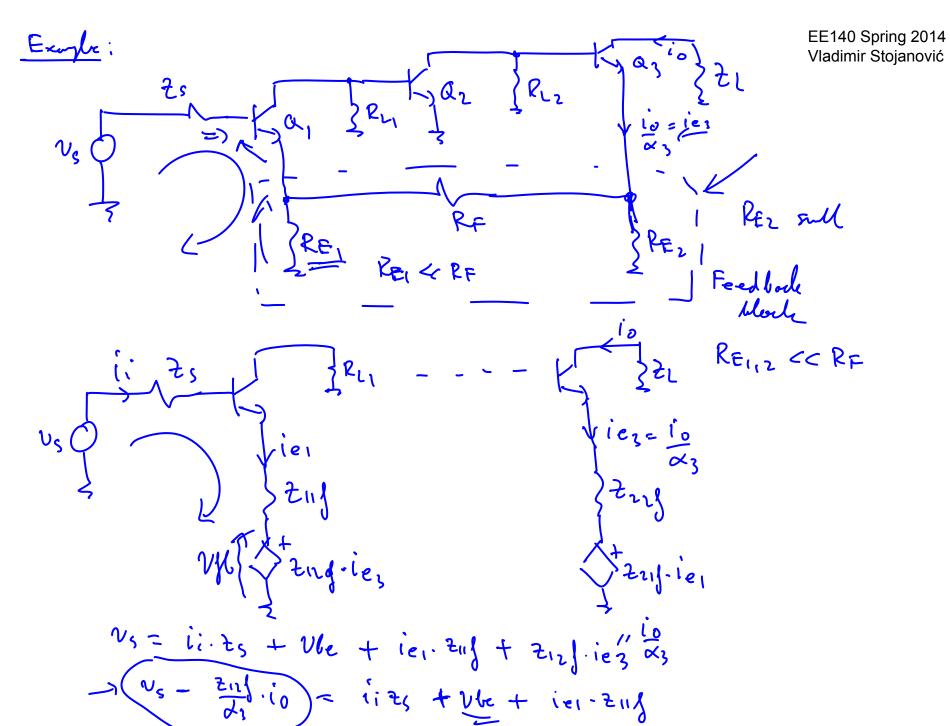
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The produce:

$$i_0 = 0$$
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