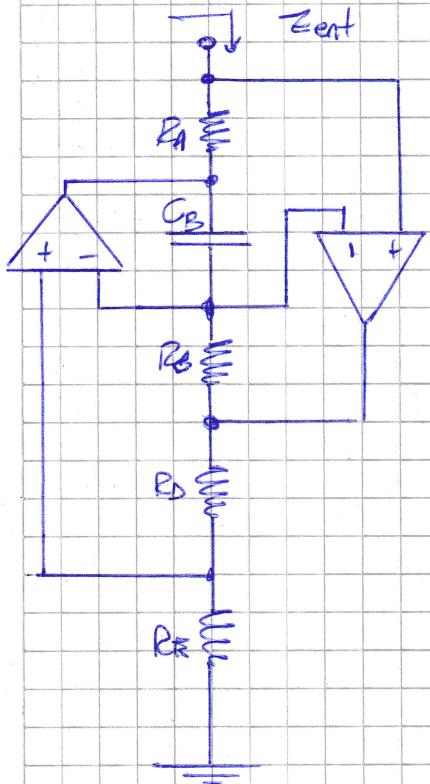


PUNTO (4)

Para reemplazar a los inductores, se debe utilizar el CIC de Léonov.
 Según lo visto en clase; esta estructura, "simula" un inductor:



$$Z_{ext} = \frac{R_A R_C R_B}{R_B R_D} \rightarrow \frac{1}{S C_B} \cdot R_D$$

$$Z_{ext} = \frac{S C_B \cdot R_A R_C R_B}{R_D}$$

$$R_A = R_C = R_D = R_B = R$$

$$Z_{ext} = S C_B \frac{R^3}{R} = \frac{S C_B R^2}{L_{eq}}$$

$$\boxed{L_{eq} = C_B \cdot R^2}$$

$$L_{eq} = L_1 \Rightarrow L_{eq} = 1,25 L = C_B \cdot R^2$$

$$\text{Asumimos } \boxed{R = 1} \Rightarrow C_B = \frac{1,25 L}{1^2} \Rightarrow \boxed{C_B = 1,25 L}$$

Dibujando el circuito completo

