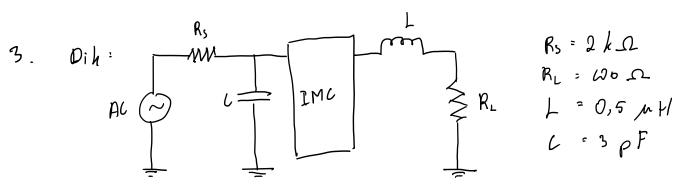
M. Hasysm Abdillah P. 110119695



Q+: Rangkasan IMC

Jawab:

o) Gunakan jawaban dari soal no. 1
$$L \text{ 7-tal} \rightarrow L_T = 1,39 \text{ mH}$$

$$L + L' = 1,39 \text{ mH}$$

$$0.5 \text{ mH} + L' = 1,39 \text{ mH}$$

$$L' = 0,89 \text{ MH} \rightarrow L & L' \text{ diranghai seri}$$

$$C \text{ Total} \rightarrow C_{T} = 6,94 \text{ pF}$$

$$\frac{1}{C \text{ seri}} = \frac{1}{C_{1}} + \frac{1}{C_{2}} + \dots$$

L Seri = L, + L2 + ---

 $\frac{1}{L \text{ paralel}} = \frac{1}{L_1} + \frac{1}{L_2} + \dots$

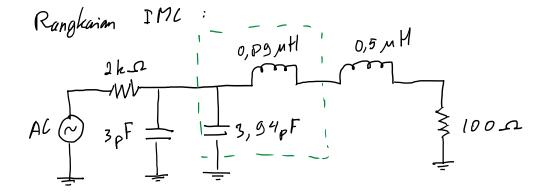
C Total
$$\rightarrow C_{7} = 6,94 \text{ pF}$$

C seri C. C2

 $C + C' = 6,94 \text{ pF}$

C parallel = C1 + C2 + ---

 $3 \text{ pF} + C' = 6,94 \text{ pF}$
 $C' = 3,94 \text{ pF} -> C & C' drang har parallel$



4. Oih:

$$R_{S} = 2k\Omega$$
 $R_{L} = 100\Omega$
 $C_{P} = 3 PF$
 $S = 50 MHz$

Ot: Rangkaian IMC

Jawab:

$$X_s = Q_s$$
. R_s degan $R_s = R_L = 100_{\Omega}$

$$X_L - X_L$$

$$1\pi 5 L_s - \frac{1}{2\pi f C_s} = Q_s$$
. R_s

$$2\pi f cs$$

$$2\pi f cs$$

$$2\pi f cs$$

$$+ \frac{1}{2\pi f cs}$$

$$X_{c} = -\frac{1}{3\omega c} \quad X_{L} = \delta \omega L$$

$$\frac{1}{x_{c}} = \frac{1}{x_{c}} - \frac{1}{x_{c}}$$

X = X -X.

$$1.3,14.50 \times 10^{6}$$
. $L_{5} = \sqrt{19}$, $L00 + \frac{1}{1.3,14.50 \times 10^{6}.5 \times 10^{-12}}$

$$C \text{ Total} \rightarrow C_{r} = 6,94 \text{ pF}$$

$$C_{p} + C_{p}' = 6,94 \text{ pF}$$

$$3 \text{ pF} + C_{p}' = 6,94 \text{ pF}$$

Ranghaian IMC:

