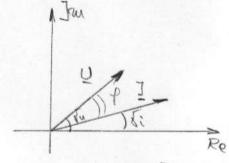
Cuns MA 10 5

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3. Jampedante echavalente.

$$u = U\sqrt{2} sin(\omega t + \delta u)$$
 $3 = 3\sqrt{2} sin(\omega t + \delta u)$
 $3 = 3\sqrt{2} sin(\omega t + \delta u)$

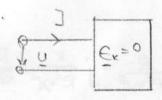


$$\begin{cases} j = \sqrt{3} \\ \frac{1}{3} = -j \\ \frac{1}{3} = -1 \end{cases}$$

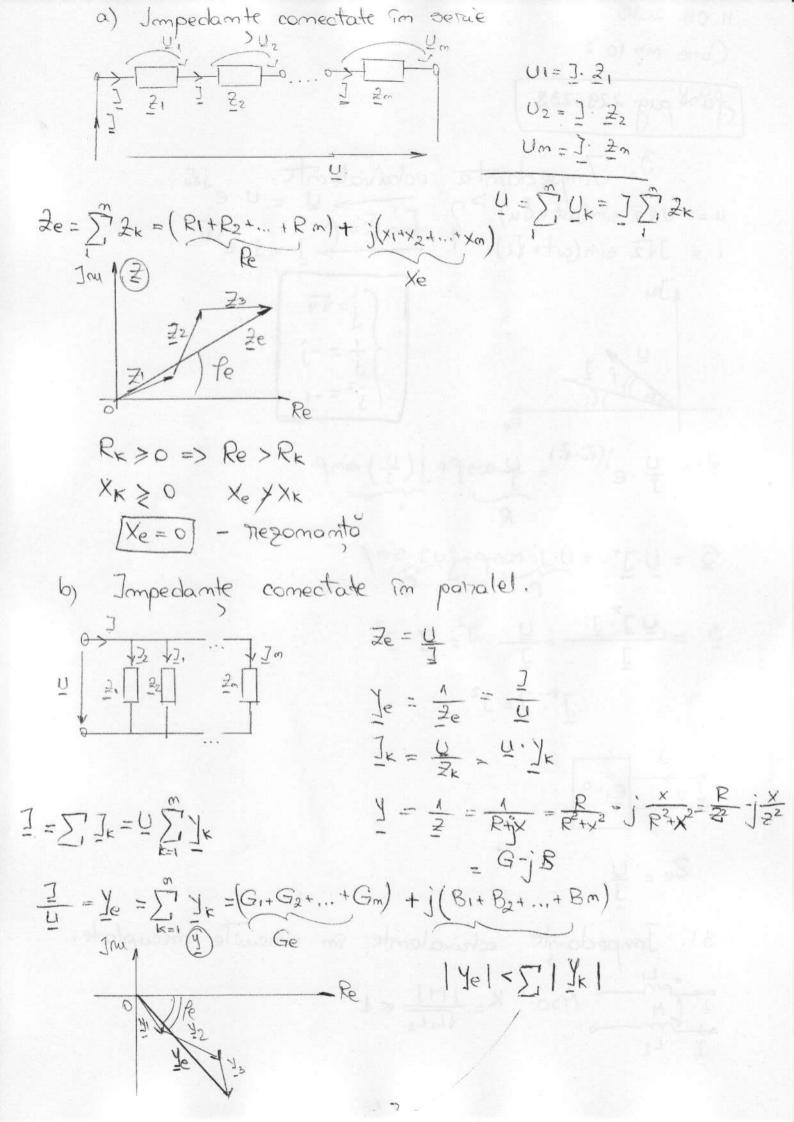
$$\frac{2}{2} = \frac{U}{J} \cdot e^{i(x_u - \delta_i)} = \frac{U \cos \rho + J(\frac{U}{J}) \sin \rho}{R}$$

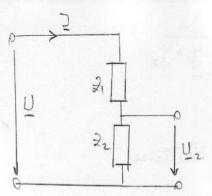
$$5 = \frac{\underline{\underline{U}}^{*}.\underline{\underline{J}}}{\underline{\underline{J}}} = \underline{\underline{U}}.\underline{J}^{2} = \underline{\underline{Z}}.\underline{J}^{2}$$

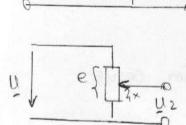
$$\underline{\underline{J}}^{*}.\underline{\underline{J}} = \underline{J}^{2}$$



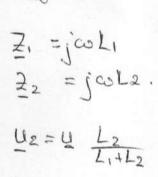
3.1. Impedante echivalente in cincuite mecuplate.

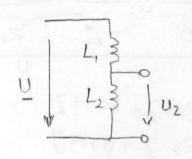


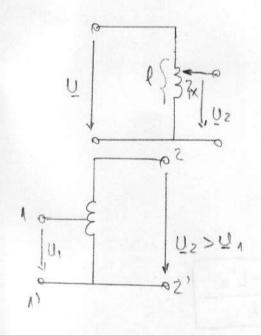




$$\underline{U}_2 = \underline{U} \cdot \underline{x}$$







U1=110KV->U2=22OKV

$$\frac{z_1}{z_2} = \frac{1}{j\omega c_2}$$

$$J_2 = J \cdot \frac{Z_1}{Z_1 + Z_2} = J \cdot \frac{y_2}{y_1 + y_2}$$

3.2. Impedante echivalente cu laturi cuplate.

$$U_1 = Z_1 \cdot J + j \omega M J$$
 $U_2 = Z_2 \cdot J + j \omega M J$

$$U = U_1 + U_2 = (21 + 22 + 2j\omega \Pi)$$
?
 $Z_e = 21 + 22 + 2j\omega \Pi$.

$$\left(\sqrt{L_1} - \sqrt{L_2}\right) \geqslant 0$$

$$L_1 + L_2 - 2\sqrt{L_1L_2} \geqslant 0$$

$$\begin{array}{lll}
\left(\frac{2}{2}_{1} = R_{1} + j\omega L_{1} \\
\frac{2}{2}_{2} = R_{2} + j\omega L_{2}
\end{array}\right) \\
\left(\frac{2}{2}_{1} = R_{2} + j\omega L_{2}
\end{array}$$

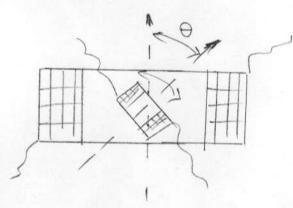
$$\frac{2}{2}_{1} = \frac{2}{2} + \frac$$

$$\frac{J_{2}}{2} = \frac{2i - 2M}{2i \cdot 2i - 2^{2}M}$$

$$\frac{J}{2} = \frac{2i - 2M}{2i \cdot 2i - 2^{2}M}$$

$$\frac{J}{2} = \frac{2i \cdot 2i - 2M}{2i \cdot 2i - 2M}$$

$$\frac{J}{2} = \frac{2i \cdot 2i - 2M}{2i \cdot 2i - 2M}$$



$$R_1 = R_2 = 0$$

=> $Z_e = \frac{-\omega^2 L_1 L_2 + \omega^2 M^2}{j\omega(L_1 + L_2 - 2M)}$

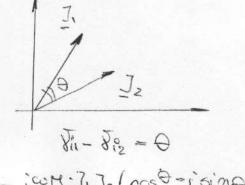
$$Le = \frac{L_1L_2 - H^2}{L_1 + L_2 - 2H}$$

- cand cele 2 axe coimeid, inductivitatea este maximo si popitiva.

c. Transferul de potere em circuitete cuplate. $U = \frac{2}{2} \cdot J_1 + \frac{2}{2} H \cdot J_2$ $U = \frac{2}{2} \cdot J_2 + \frac{2}{2} H \cdot J_1$

$$S_1 = U \cdot J^*$$

 $S_1 = U \cdot J^*$; $S_2 = U \cdot J^*$
 $S_1 = U \cdot J^*$; $S_2 = U \cdot J^*$



[P= Re[5] = R.J. + wHJ,] 5 in 0 P2 = Re[5] = R2J2 - coMJ,] 5 in 0