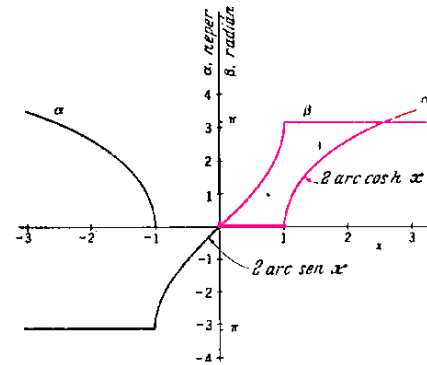


DISEÑO DE FILTRO PASA BAJOS DE K_{KTE}

DATOS: ω_c y R_o

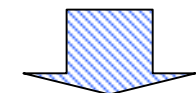
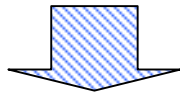
**SELECCIONAR
BANDA PASANTE
EN CURVA DE K_{CTE}**



**SELECCIONAR
TIPO DE
REACTANCIA PARA
 Z_{K1} Y Z_{K2}**

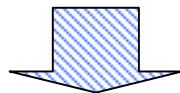
$Z_{K1} \left\{ \begin{array}{l} \text{PERMITE PASAR FREC. BAJAS} \\ \text{SE OPONE AL PASO DE FREC. ALTAS} \end{array} \right\} j\omega L_1$

$Z_{K2} \left\{ \begin{array}{l} \text{PERMITE PASAR FREC. ALTAS} \\ \text{SE OPONE AL PASO DE FREC. BAJAS} \end{array} \right\} \frac{1}{j\omega C_2}$



RECORDANDO

$$Z_{K1} * Z_{K2} = R_o^2$$



**COMO
COMPROBACIÓN**

$$\omega_c = \frac{2}{\sqrt{L_1 * C_2}}$$



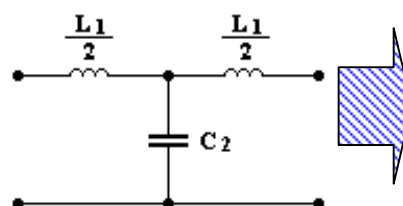
$$Z_{K1} = j\omega_c L_1 = j2 * R_o$$

\therefore

$$L_1 = \frac{2 * R_o}{\omega_c}$$

$$Z_{K2} = \frac{1}{j\omega_c C_2} = \frac{R_o^2}{Z_{K1}} = \frac{R_o^2}{j\omega_c \frac{2 * R_o}{\omega_c}}$$

$$C_2 = \frac{2}{R_o * \omega_c}$$



**MATLAB
EWB
MICROCAP III
PSPICE**