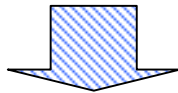
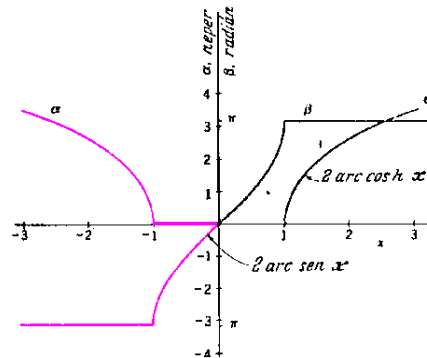
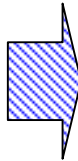




DISEÑO DE FILTRO PASA ALTOS DE K_{KTE}

DATOS: ω_c y R_o

SELECCIONAR
BANDA PASANTE
EN CURVA DE K_{CTE}

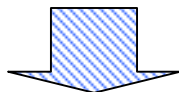


SELECCIONAR
TIPO DE
REACTANCIA PARA
 Z_{K1} Y Z_{K2}



$Z_{K1} \left\{ \begin{array}{l} \text{PERMITE PASAR FREC. ALTAS} \\ \text{SE OPONE AL PASO DE FREC. BAJAS} \end{array} \right\} \frac{1}{j\omega C_1}$

$Z_{K2} \left\{ \begin{array}{l} \text{PERMITE PASAR FREC. BAJAS} \\ \text{SE OPONE AL PASO DE FREC. ALTAS} \end{array} \right\} j\omega L_2$



DEL GRÁFICO

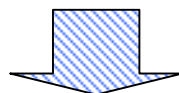
$$\sqrt{\frac{Z_1}{4 * Z_2}} = -1 \Rightarrow \frac{Z_1}{2 * R_o} = -j1$$



$$Z_{K1} = \frac{1}{j\omega_c C_1} = -j2 * R_o$$

\therefore

$$C_1 = \frac{1}{2 * R_o * \omega_c}$$



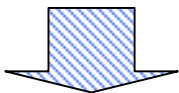
RECORDANDO

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



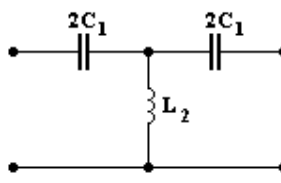
$$Z_{K2} = j\omega_c L_2 = \frac{R_o^2}{Z_{K1}} = \frac{R_o^2}{\frac{1}{j\omega_c \frac{1}{2 * R_o \omega_c}}}$$

$$L_2 = \frac{R_o}{2 * \omega_c}$$



COMO
COMPROBACIÓN

$$\omega_c = \frac{1}{2 * \sqrt{L_2 * C_1}}$$



MATLAB
EWB5
MICROCAP III
PSICE