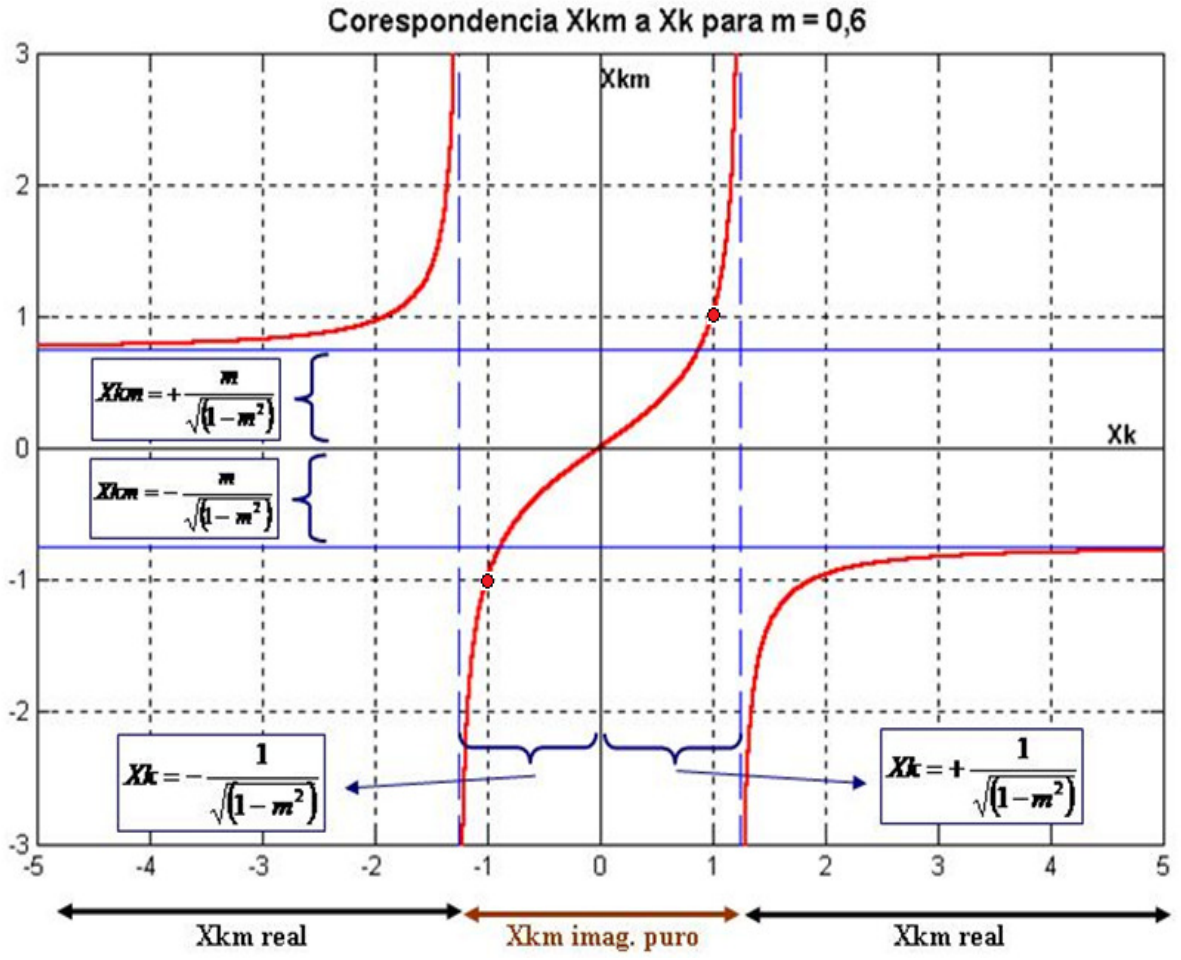
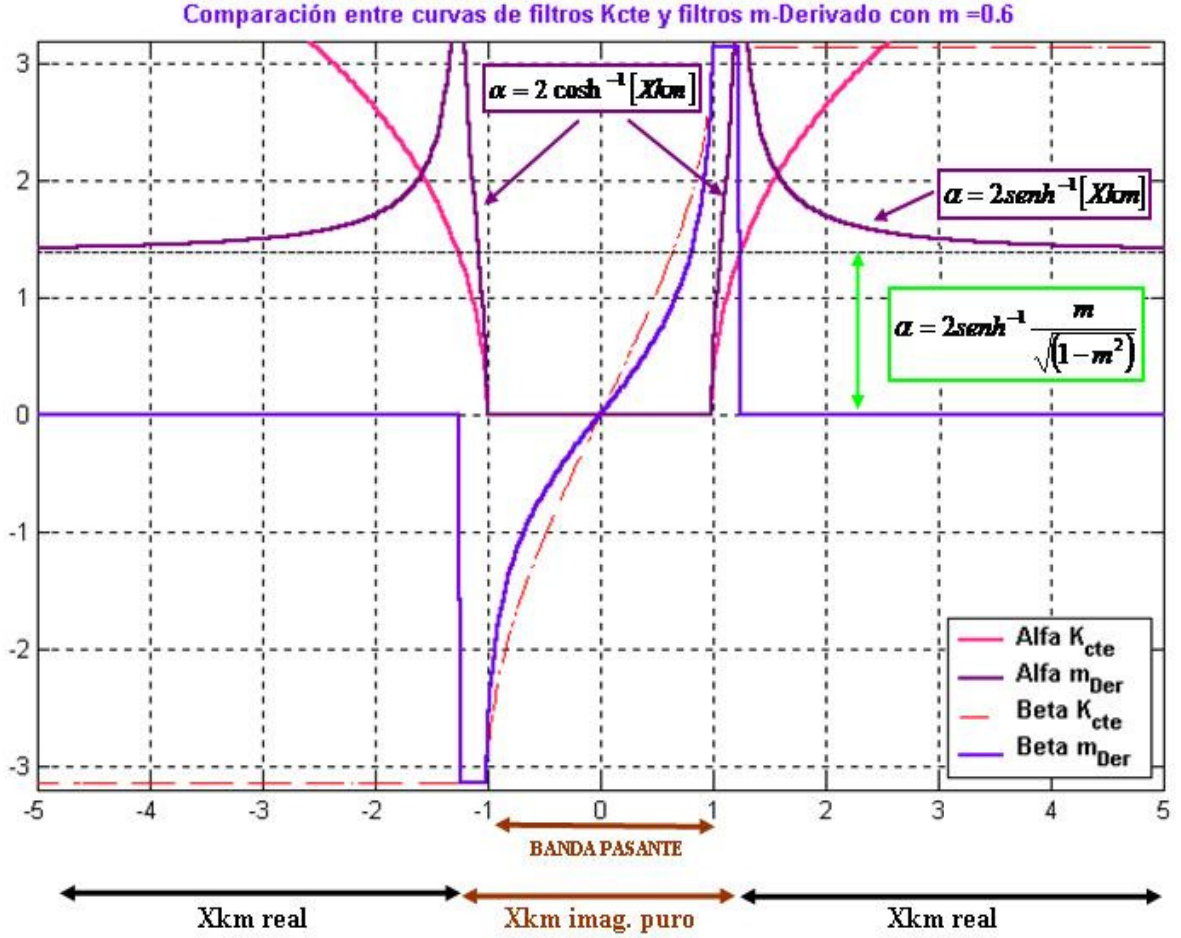

Corespondencia Xkm a Xk para m = 0,6
Xkm
Xk
$Xkm = +\frac{m}{\sqrt{(1-m^2)}}$
$Xkm = -\frac{m}{\sqrt{(1-m^2)}}$
$Xk = -\frac{1}{\sqrt{(1-m^2)}}$
$Xk = +\frac{1}{\sqrt{(1-m^2)}}$
Xkm real
Xkm imag. puro
Xkm real


Comparación entre curvas de filtros Kcte y filtros m-Derivado con m =0.6
$\alpha = 2\cosh^{-1}[Xkm]$
$\alpha = 2senh^{-1}[Xkm]$
$\alpha = 2senh^{-1}\frac{m}{\sqrt{(1-m^2)}}$
Alfa K_{cte}
Alfa m_{Der}
Beta K_{cte}
Beta m_{Der}
BANDA PASANTE
Xkm real
Xkm imag. puro
Xkm real

CÁLCULO DE m, DADO COMO DATOS ω_{C1}, ω_{C2} Y $\omega_{\infty 2}$

$$m = \sqrt{1 - \left(\frac{f_\infty}{f_c}\right)^2} \rightarrow En\ Filtros\ pasa - bajos$$

$$m = \sqrt{1 - \left(\frac{f_c}{f_\infty}\right)^2} \rightarrow En\ Filtros\ pasa - altos$$

$$m = \sqrt{1 - \left(\frac{BW}{BW_\infty}\right)^2} = \sqrt{1 - \left(\frac{\omega_{C2} - \omega_{C1}}{\omega_{C2} * \frac{\omega_{\infty 2}}{\omega_{C2}} - \frac{\omega_{C1}}{\frac{\omega_{\infty 2}}{\omega_{C2}}}}\right)^2} \rightarrow En\ Filtros\ Pasa - Banda$$

$$m = \sqrt{1 - \left(\frac{BW_\infty}{BW}\right)^2} = \sqrt{1 - \left(\frac{\omega_{C2} * \frac{\omega_{\infty 2}}{\omega_{C2}} - \frac{\omega_{C1}}{\frac{\omega_{\infty 2}}{\omega_{C2}}}}{\omega_{C2} - \omega_{C1}}\right)^2} \rightarrow En\ Filtros\ Elimina - Banda$$