Hoja Nº

Curso

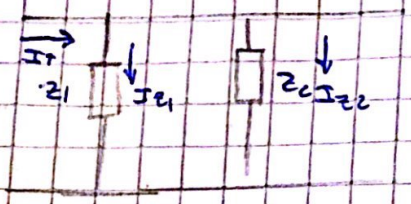
Materia

Asociación en paralelo de impedancia

Admitancia $Y = \frac{1}{Z}$ $[Y] = \frac{1}{\Omega}; \Omega^{-1}; \mho$ (mho); S (1 siemens)

$Y = \frac{1}{R + jX} = G + jB$ → Susceptancia

↓ Conductancia



$I_T = I_{Z_1} + I_{Z_2}$

$I_T = \frac{V_Z}{Z_1} + \frac{V_Z}{Z_2}$

$I_T = V_Z \cdot \left(\frac{1}{Z_1} + \frac{1}{Z_2}\right) = V_Z \frac{Z_2 + Z_1}{Z_1 \cdot Z_2}$

mple

itancia

$\frac{1}{Z_T} = Y_T = \frac{1}{Z_1} + \frac{1}{Z_2}$

$Y_T = Y_1 + Y_2$

jwc

Capacitor ideal para el uso que se le Low ESR da menor pérdidas Resistencia Serie equivalente

$Z_C = \frac{1}{wC} \rightarrow Y_C = \frac{wC}{-j} \cdot \frac{j}{j} = jwC$

$Z_L = jwL \rightarrow Y_L = \frac{1}{jwL} = \frac{-j}{wL}$

Si Y_1 e Y_2 son cap

$Y_T = Y_1 + Y_2$

$Y_T = jwC_1 + jwC_2$

$Y_T = jw(C_1 + C_2)$

Scanned with CamScanner