Fernando Rueso González 3º 2009/10
Laboratorio de Electromagnetismo

Montaje corto

$\frac{1}{R} = \frac{1}{R'} - \frac{1}{R_V} \rightarrow R' = \frac{R R_V}{R+R_V}$

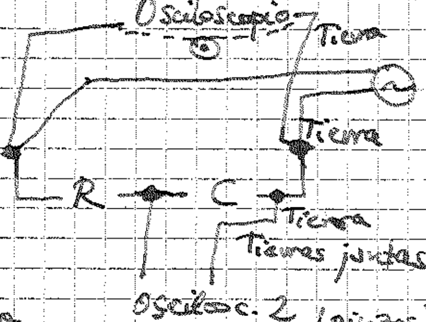
largo

$R = R' - R_A$

$R' = R + R_A$

$R' = \frac{V}{I}$

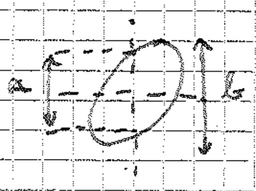
$V, I_{ef} = \frac{V_0, I_0}{\sqrt{2}}$



Osc
LEVEL → regula voltaje de inicio
SLOPE → cambia pendiente
CHOP → + sincronizado
TRIG EXT → TTL / CMOS (AUX OUT)
Calibrado → mando a la dcha del todo

$f = \frac{1}{T}$

Entrar x-y pulsando GD

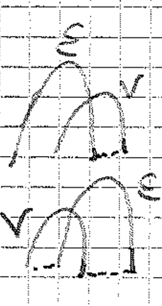


$|\text{sen}\,\Phi| = \frac{a}{b}$

$\Phi = \phi_V - \phi_\mathcal{E} \Rightarrow \phi_V$ ($\phi_\mathcal{E} = 0$)

$\Phi < 0$ si V adelantada

$\Phi > 0$ si V retrasada



origen fases, ℰ referencia

$\Delta t \rightarrow \Delta x$, cambio signo

$\tau = t_{V_\mathcal{E}} - t_{V_c} \rightarrow \text{sig}(\tau) = \text{sig}(\Phi)$

$\Phi = \frac{2\pi\tau}{T} = 2\pi f \tau \quad (\pm 2n\pi)$

$= \phi_2 - \phi_1$, $V_1 = V_{10}\,\text{sen}(\omega t + \phi_1)$, $V_2 = V_{20}\,\text{sen}(\omega t + \phi_2)$

Alterna

$|V_{ef}| = |Z|\,|I_{ef}|$

$\Phi = \phi_2 - \phi_1$

$\text{sig}\,\Phi = -\text{sig}(x_2 - x_1) = \text{sig}(x_1 - x_2)$

si $\Phi = \varphi_\mathcal{E} - \varphi_V = -\varphi_V$ ($\varphi_\mathcal{E} = 0$)

$\text{sig}\,\Phi = -\text{sig}(x_\mathcal{E} - x_V) = \text{sig}(x_V - x_\mathcal{E})$

STOR
PRINT