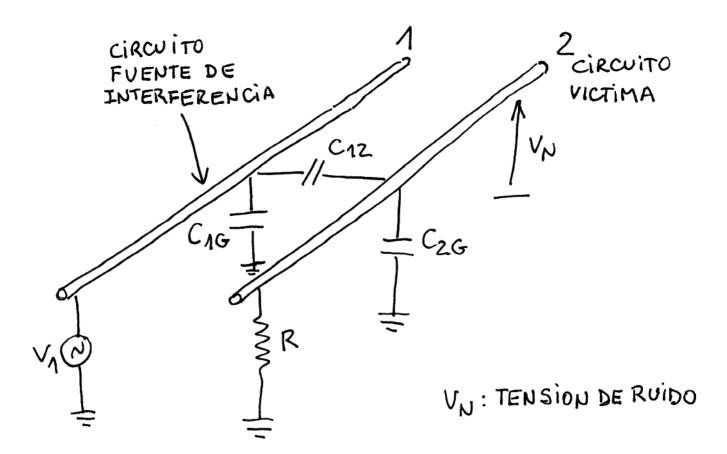
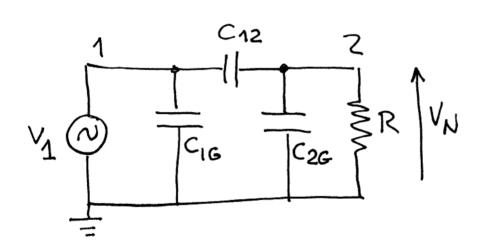
ACOPLAMIENTO CAPACITIVO





$$1/\left[\frac{1}{JWC_{12}} + \left(\frac{1}{R} + JWC_{2G}\right) + jWC_{1G} = 2_{tot}\right]$$

$$Z_{z} = \frac{1}{\frac{1}{R} + j\omega C_{2G}}$$

$$Z_{z} = \frac{R}{1 + j\omega C_{2G}R}$$

Y= YR+jWCzG

$$V_1 \cdot \frac{\frac{R}{1+jwC_{2GR}}}{\frac{R}{1+jwC_{2GR}} + \frac{1}{jwC_{12}}} = V_N.$$

$$V_{l} \frac{R}{R + \sqrt{j} w C_{12}} = V_{l} \cdot \frac{R}{j w C_{12} R + 1} = V_{l} \cdot \frac{j w C_{12} R}{j w C_{12} R + 1}$$

$$V_{l} \stackrel{\sim}{=} V_{l} \cdot \frac{j w C_{12} R}{j w C_{12} R}$$

$$V_{l} \stackrel{\sim}{=} V_{l} \cdot \frac{j w C_{12} R}{j w C_{12} R}$$

$$V_{l} = V_{l} \cdot \frac{j w C_{26}}{j w C_{26}} = V_{l} \cdot \frac{c_{26}}{c_{26} + c_{12}}$$

$$V_{l} = \frac{c_{12}}{c_{12} + c_{26}} \cdot V_{l}$$

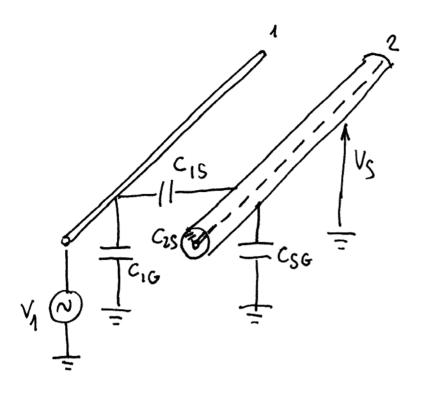
$$V_{l} = \frac{c_{12}}{c_{12} + c_{12}} \cdot V_{l}$$

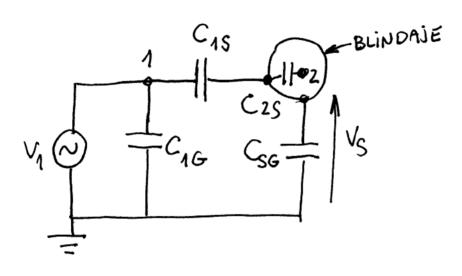
$$V_{l} = \frac{c_{12}}{c_{12} + c_{12}} \cdot V_{l}$$

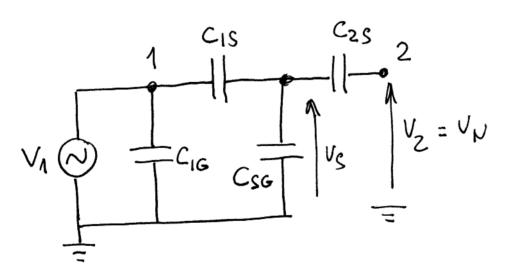
$$V_{l} = \frac{c_{12}}{c_{12} + c_{12}} \cdot V_{l}$$

$$V_{l} = \frac{c_{13}}{c_{12}} \cdot V_{l}$$

 $V_{N} = V_{1} \cdot \frac{C_{12}}{C_{12} + C_{2G}}$ $V_{1}C_{12}$ $G_{12}+C_{2G}$

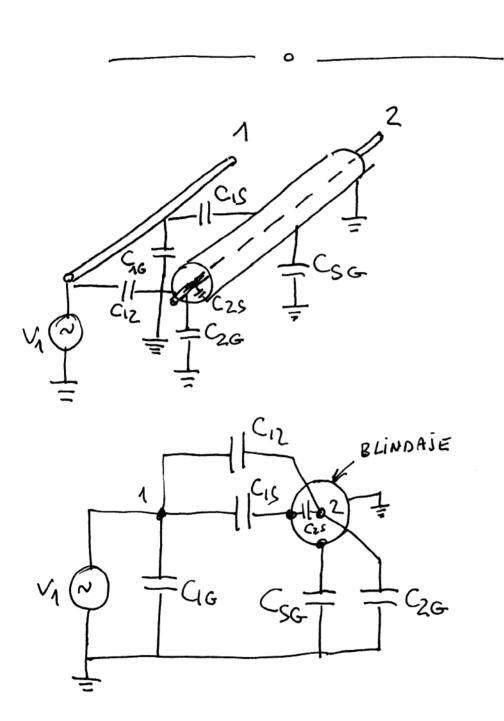


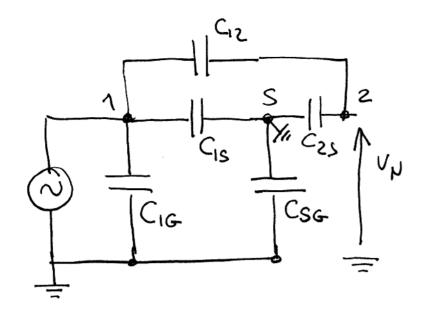


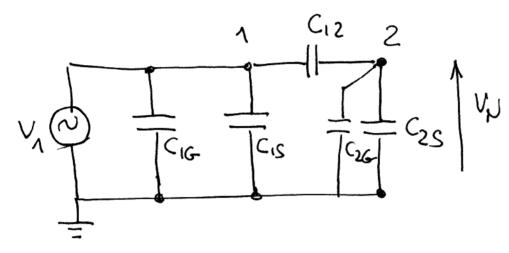


$$V_S = \frac{C_{1S}}{C_{1S} + C_{SG}} \cdot V_A$$

LA TENSION DE RUIDO NO SE REDUCE SI EL BLINDAJE SE CONECTA A TIERRA V= VS=0.



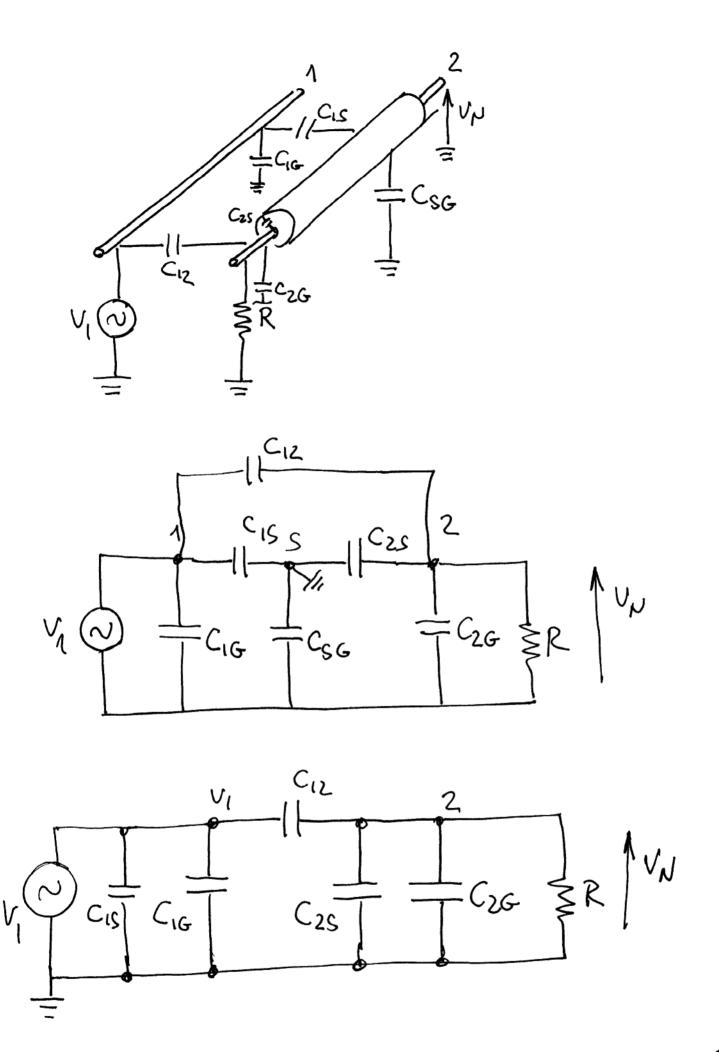




$$V_{N} = \frac{C_{12}}{C_{12} + C_{2G} + C_{2S}} \cdot V_{1}$$

PARA BRINDAR EL CAMPO ELECTRICO.

- 1) BAJAR LONGITUD DE COND. 2 -> CIZY (1/202)
- 2) BUENA CONEXION A TIERRA EN EL BLINDAJE



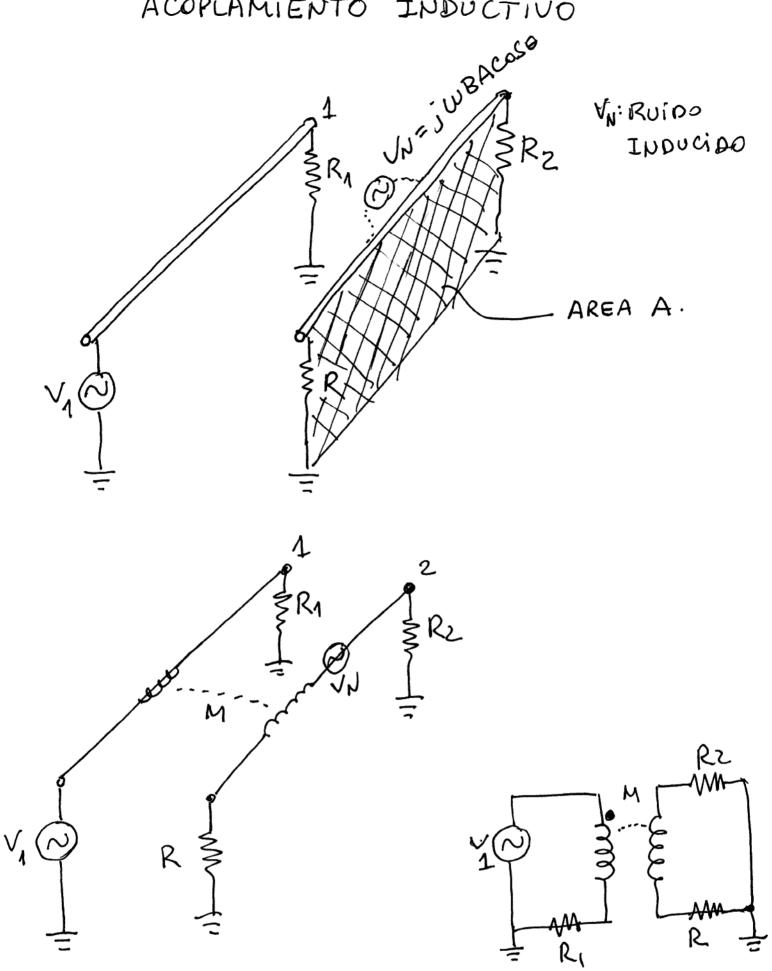
 $\overline{7}$

Si RZ< W(CZG+CZS) (CASO USUAL).

VN ~ jW RCIZV1 SIN BLINDA

IGUAL AL CASO DE CABLE SIN BLINDAJE AHORA CIZ POR LA PRESENCIA DEL BLINDAJE.

ACOPLAMIENTO INDUCTIVO

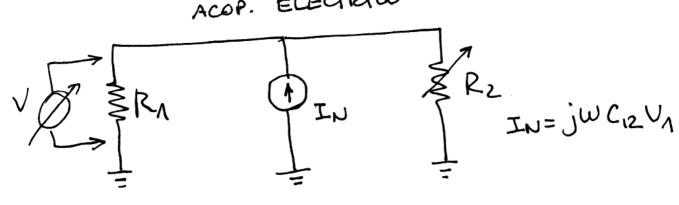


9

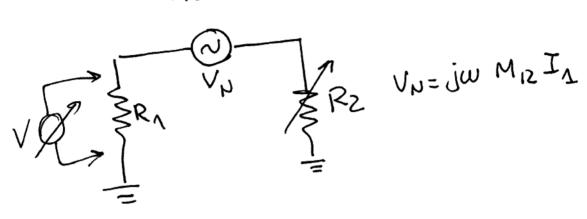
$$M = \frac{\phi_{12}}{I_1}$$

PARA DISMINUIR EL A COPLAMIENTO INDUCTIVO DISMINUIR BYA CABLES TRENZADOS (TWISTED PAIRS). COLOCAR CONDUCTOR 2 CERCA PLANO DE TIERRA

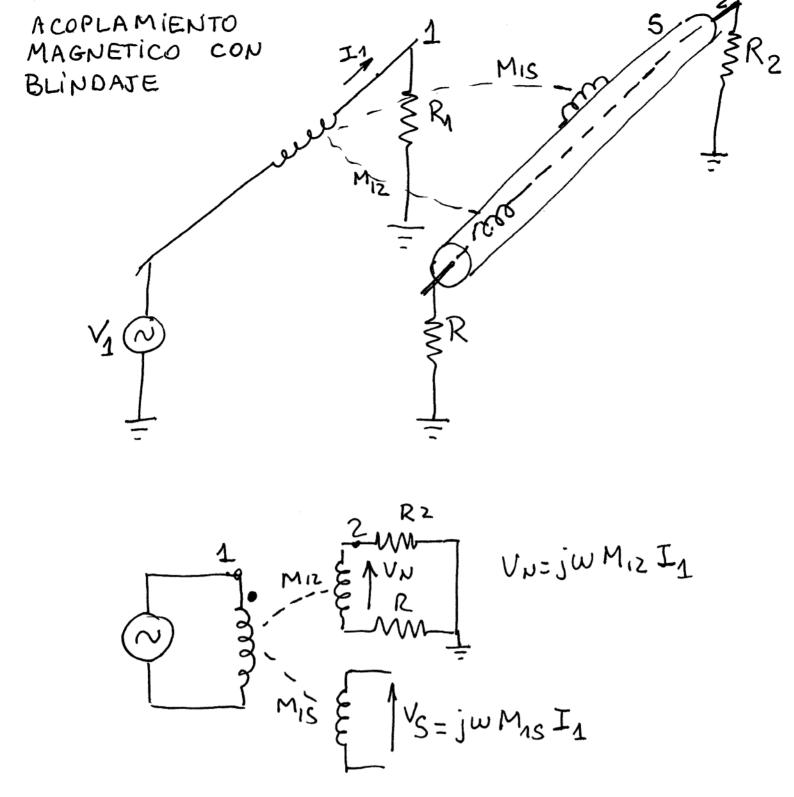
ACOP. ELECTRICO



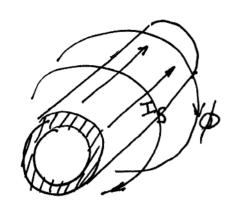
ACOP. MAGNETICO.



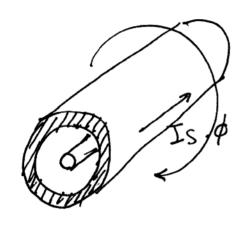
ACOP. ELECTRICO $\wedge T$ Si Rzl ACOP. MAGNETICO **√**↑



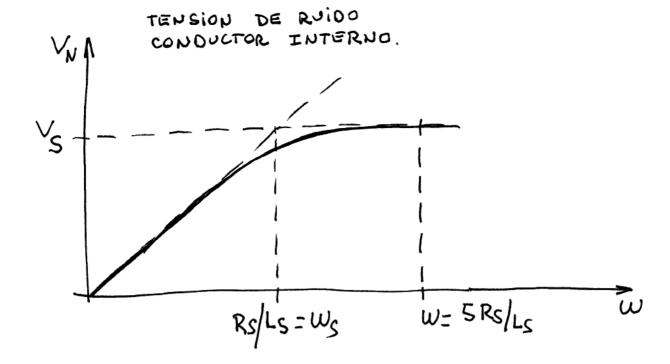
ACOPLAMIENTO MAGNETICO BLINDAJE-CONDUCTOR INTERNO

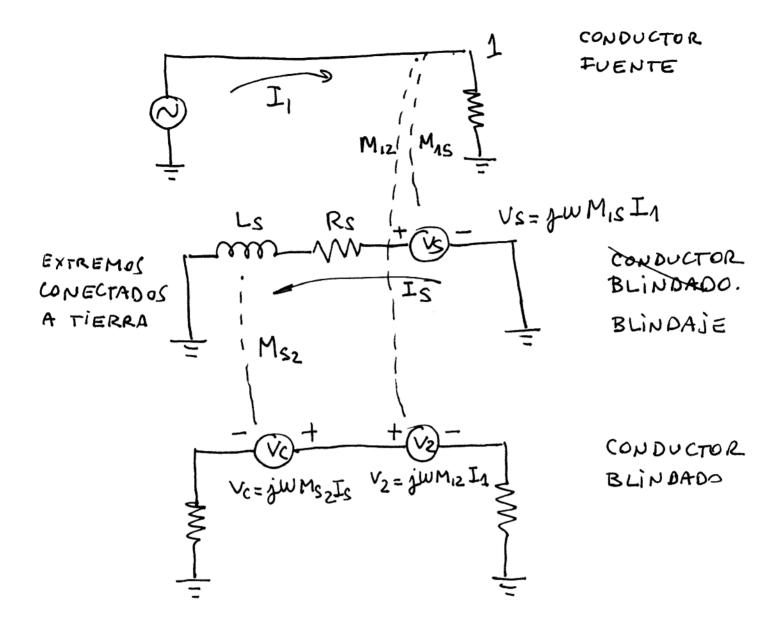


$$L_S = \frac{\phi}{I_S}$$



$$V_{N} = \mu M. \frac{V_{S}}{R_{S} + \mu L_{S}} = \left(\frac{\mu}{jw + \frac{R_{S}}{L_{S}}}\right) V_{S}$$





Si Rsl -> Vnl

RS: ES LA RESISTENCIA DEL BLINDAJE Y LA RESISTEN CIA DE LOS CONTACTOS, Y DE TIERRA.