

5. Proteção de equipamentos → Proced. de Rede / CIGRE

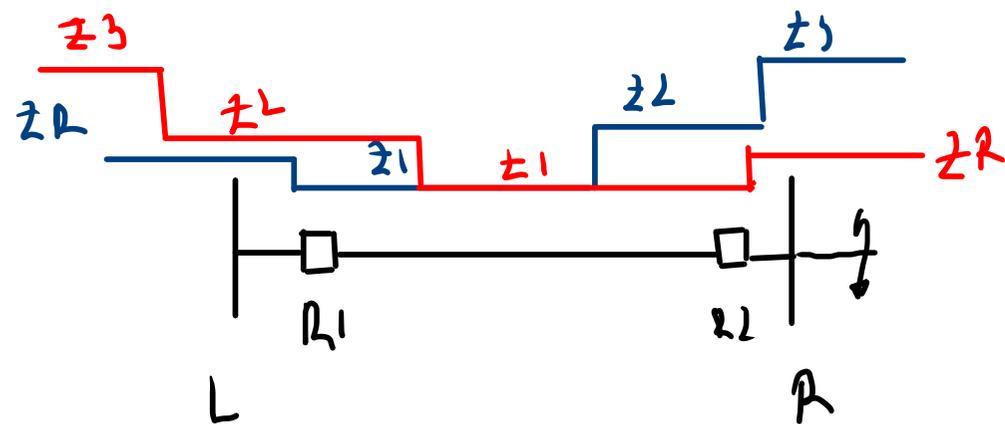
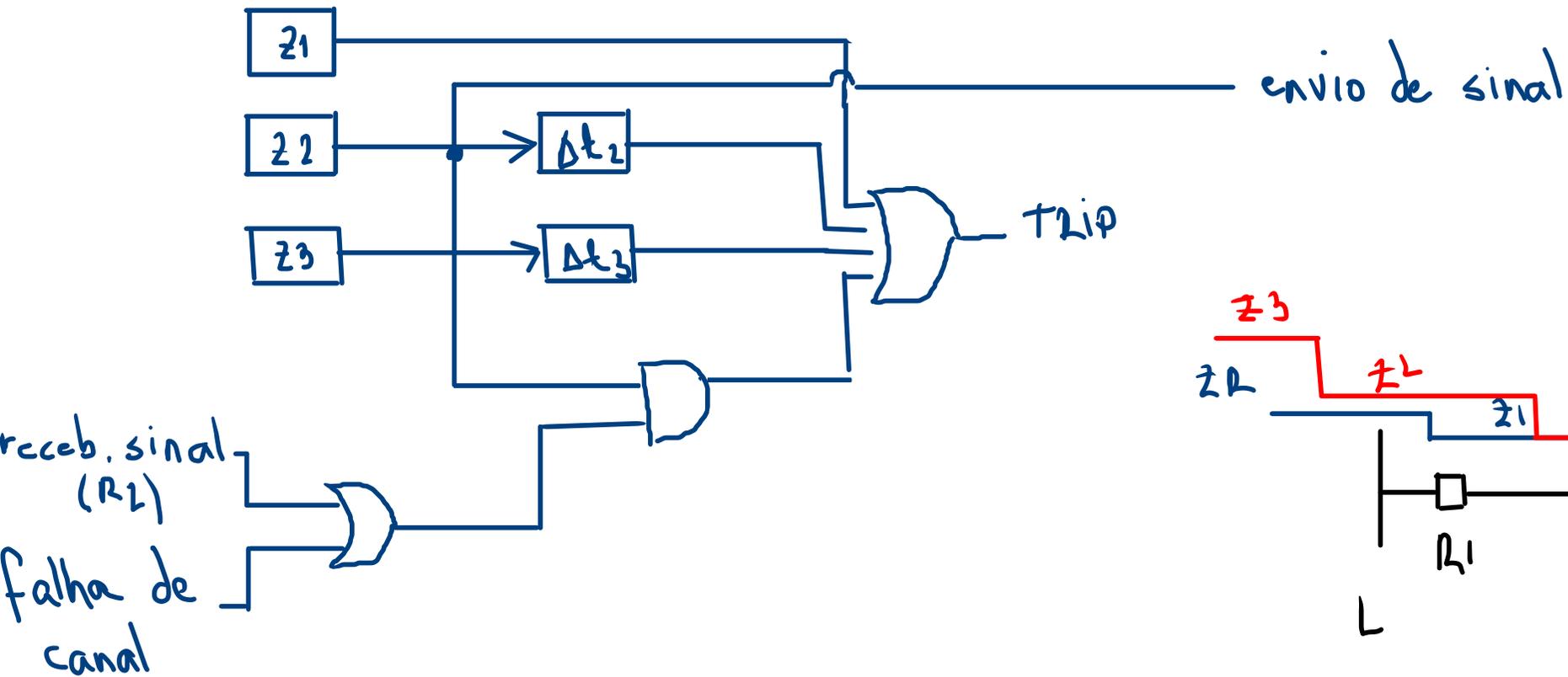
5.1 Proteção de linhas de transmissão

5.2 Proteção de reatores

5.3 Proteção de transformadores

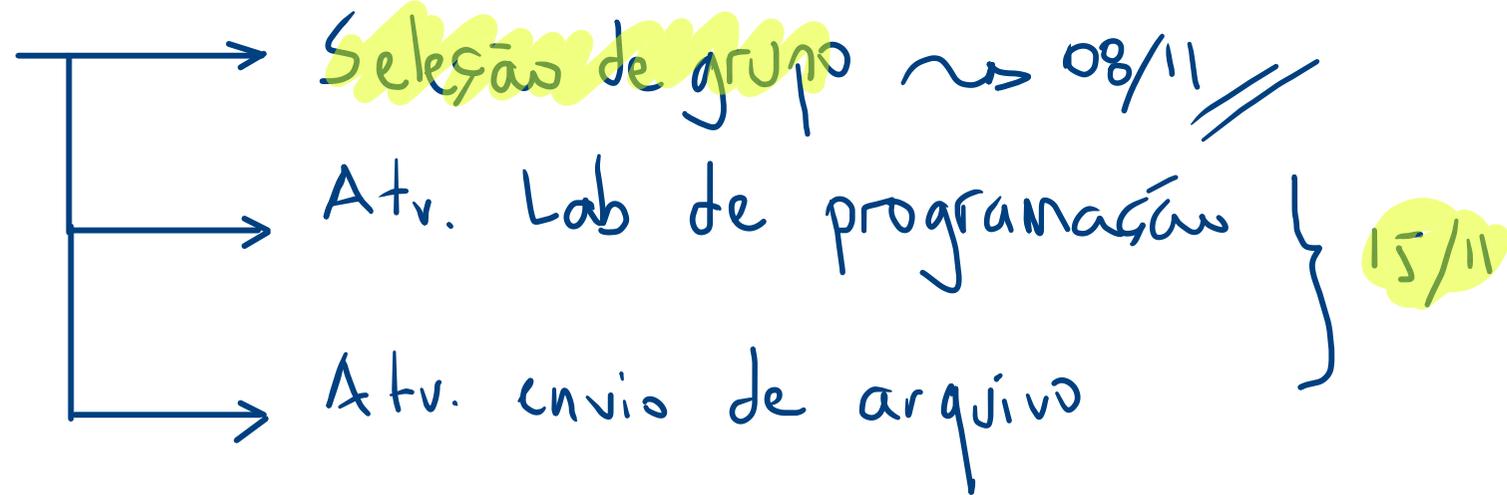
Não se esqueçam
da presença no
Educação

b) DCUB - Directional Comparison Unblocking: desbloqueio por comparação direcional

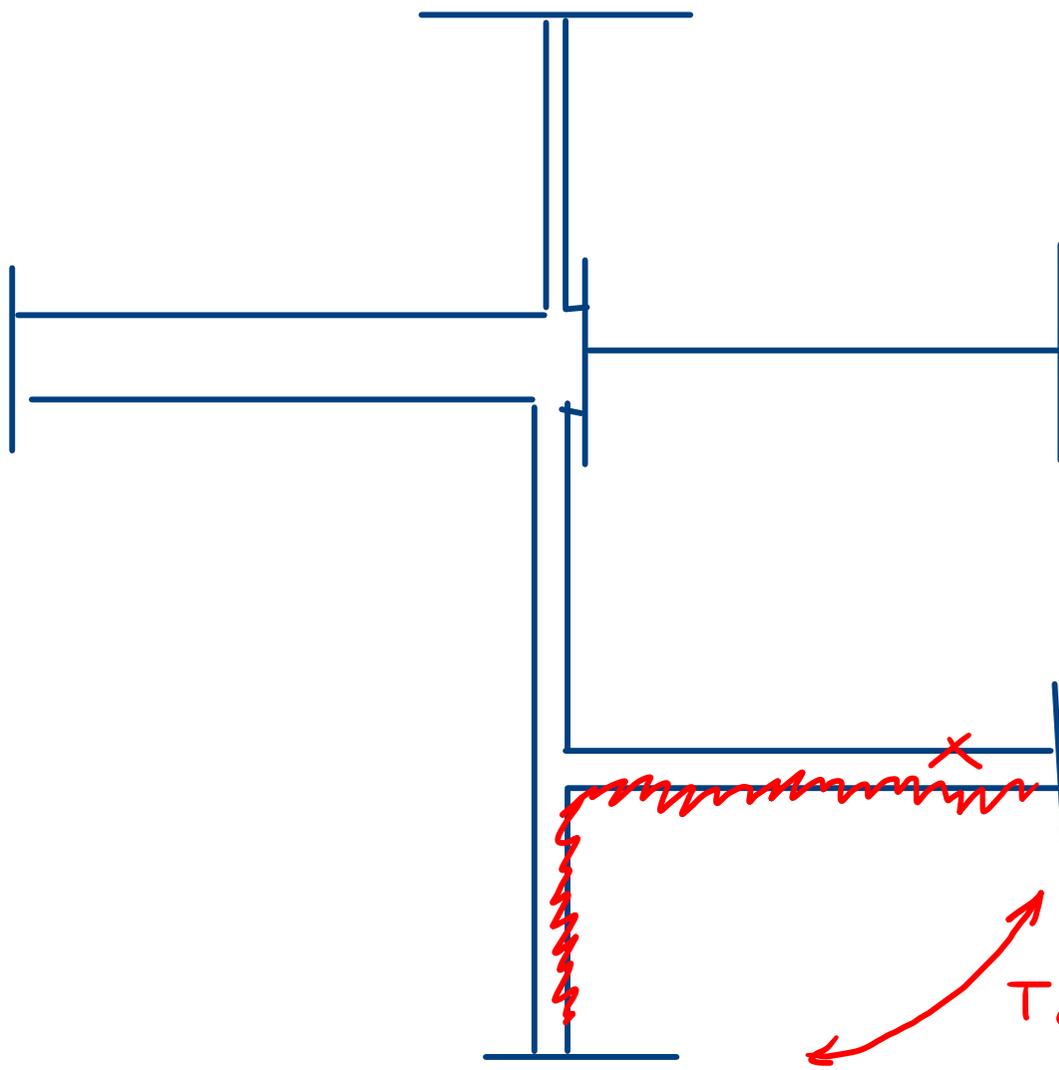


Atividade #4

Proteção diferencial



↙ "Sincronismo" entre terminais

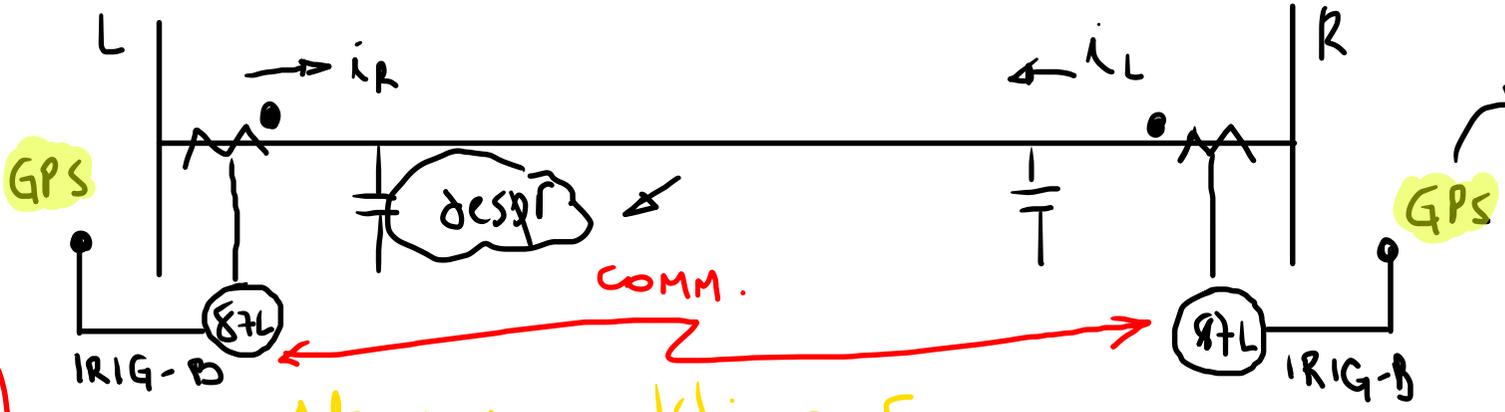


500 kV

87 L

TC: 1200.5

Ta é síncrono

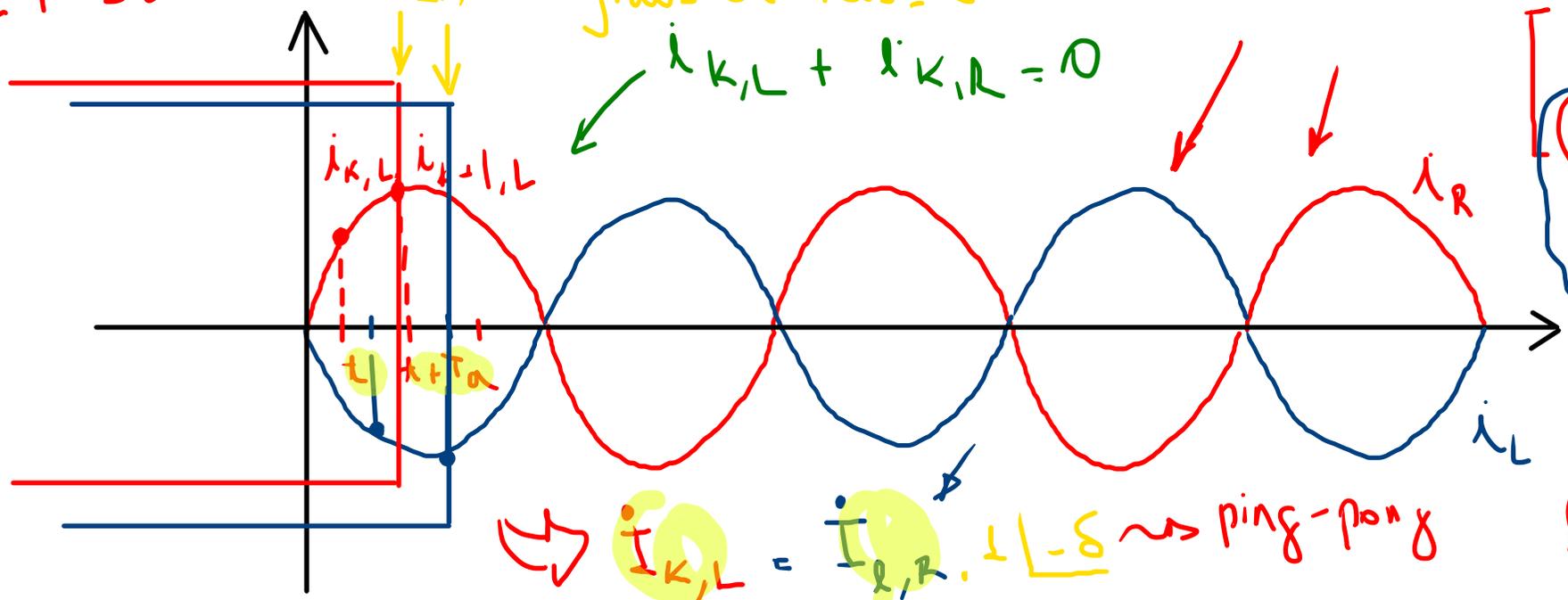


tempo absoluto
(relogio nuclear)
↙
relativ.

$|I_H + |I_L|$
1 2
⊗ $|I_L + |I_L|$

$\Delta k \rightsquigarrow$ grav. elétricos = δ

$i_{k,L} + i_{k,R} = 0$



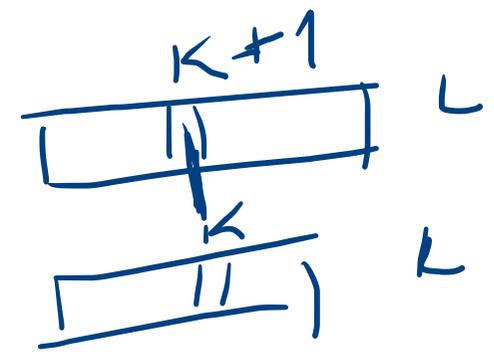
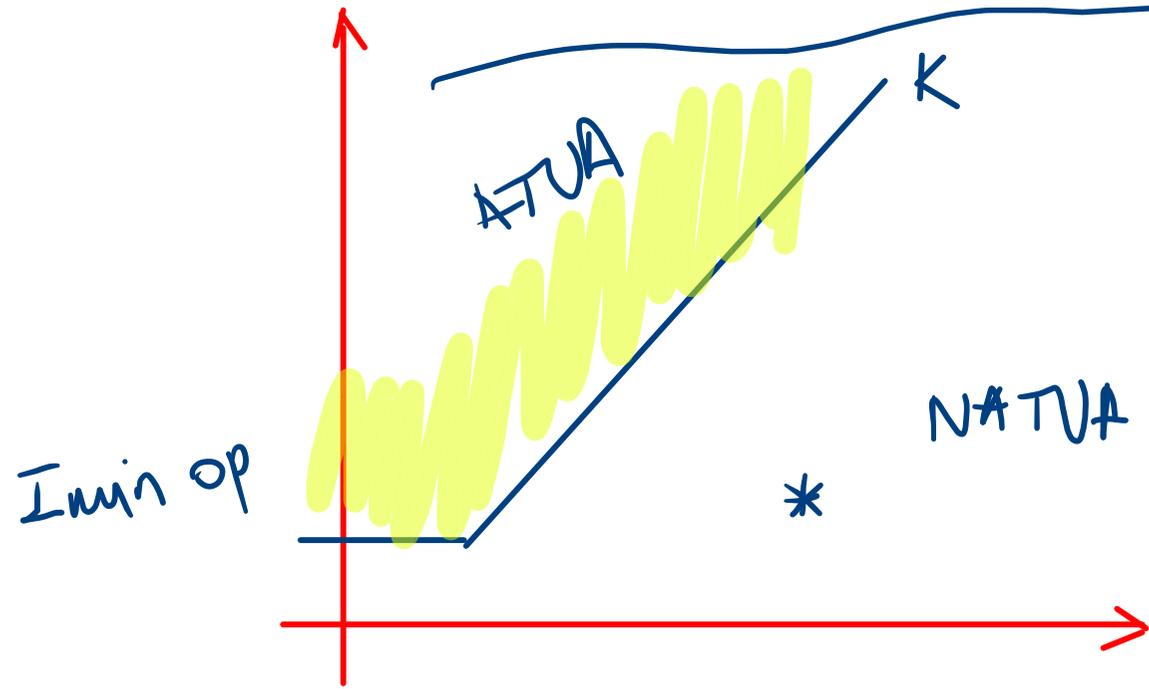
$$\begin{bmatrix} V_R \\ I_R \end{bmatrix} = [T]_{\alpha} \begin{bmatrix} V_L \\ I_L \end{bmatrix}$$

CALC
conh

$i_{k,L} = i_{l,R} \cdot \frac{1}{L-\delta} \rightsquigarrow$ ping-pong

{ k-ésima anos.
l-ésima anos.

$$|I_L + I_R| \geq K \cdot I_{HS}$$



$$\frac{|I_L| + |I_R|}{2}$$