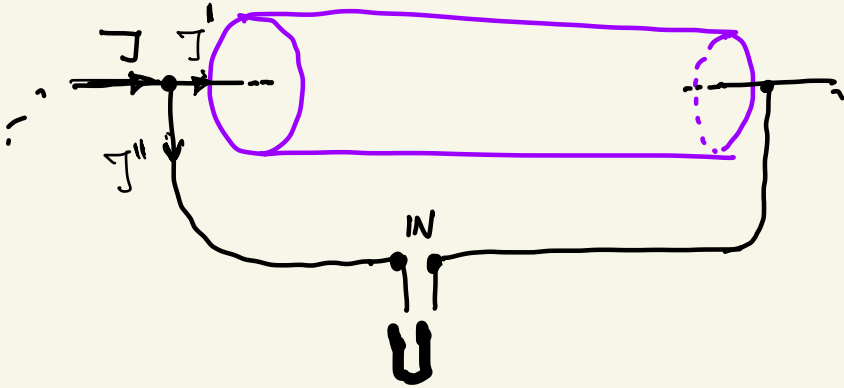


26 MAI

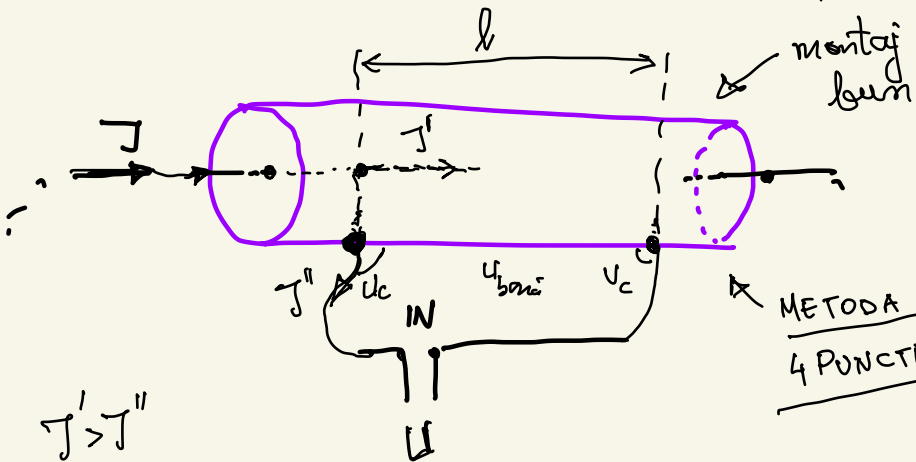
Montaj care
nu este bun



$$U = U_c + U_{\text{bară}} + U_c = 2U_c + U_{\text{bară}} = 2R_c J + R_{\text{bară}} J' \\ \approx 2R_c J + R_{\text{bară}} J$$

$$2R_c J \gg R_{\text{bară}} J \Rightarrow$$

\Rightarrow măsurăm $2R_c$ și nu $R_{\text{bară}}$



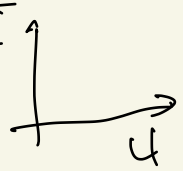
METODA CELOR
4 PUNCTE

$$J' > J'' \\ J \approx J'$$

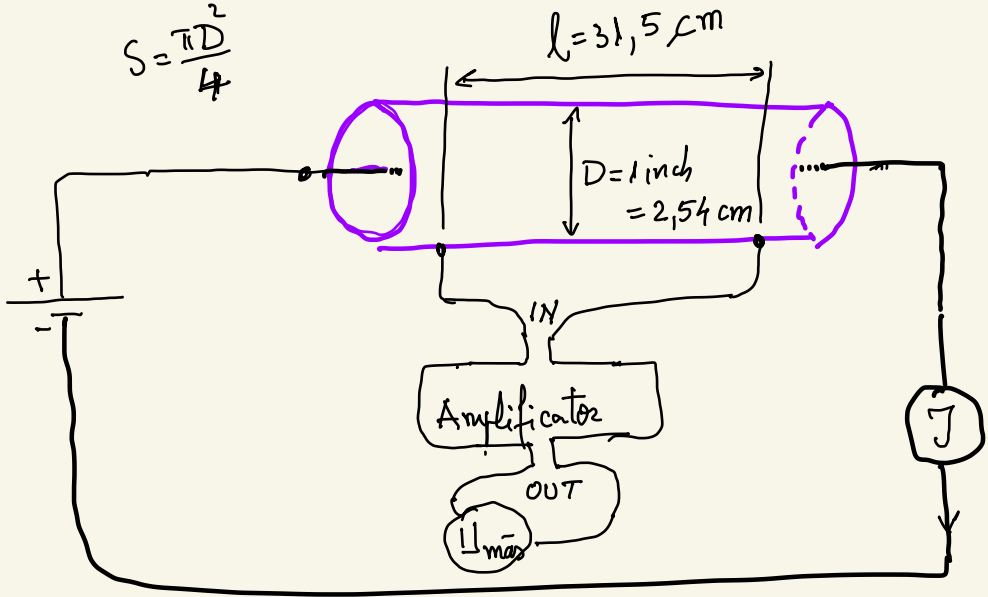
$$U = U_c + U_{\text{bară}} + U_c$$

$$U = 2U_c + U_{bma}$$

$$U = \underbrace{2R_c J''}_{\text{micr}} + \underbrace{R_b J'}_{\text{elefant}} \approx R_b J$$



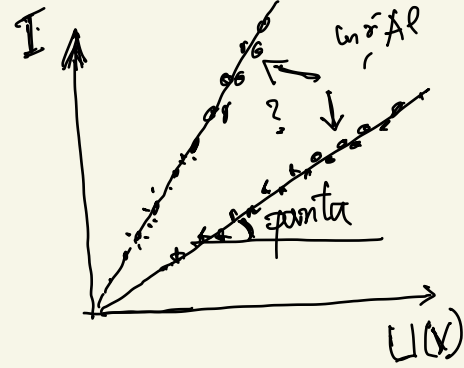
$$S = \frac{\pi D^2}{4}$$



$$I_{mas} = 10^5 \cdot U$$

$$U = \frac{4 \text{ mV}}{100.000}$$

$I(A)$	$U_{m\ddot{a}s}(V)$	$U = \frac{U_{m\ddot{a}s}}{100.000}(V)$
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-



$$panta = \frac{1}{R} \Rightarrow$$

$$\Rightarrow R = \frac{1}{panta}$$

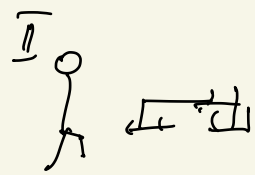
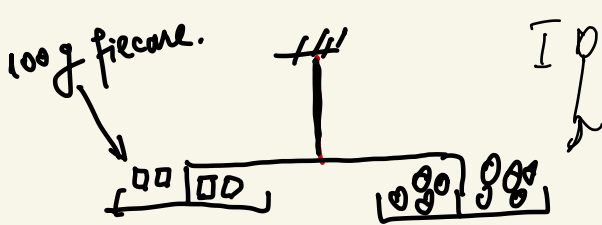
Pe același grafic
amândouă!

Obs. Ex: $R = \frac{3}{7} \cdot 10^{-5} = 0,428571 \cdot 10^{-5}$

$4,28 \cdot 10^{-6}$

NUUU ... NU ... NU ASA!





(I) $m = 4,2 \text{ kg}$

(II) $m = 4,20 \text{ kg}$

pentru $I = 1 \text{ A}$.

Metale	$R (\Omega)$	$\rho (\Omega \text{ m})$	$\sigma (\Omega^{-1} \text{ m}^{-1})$	$n (\text{m}^{-3})$	$v_d (\frac{\text{m}}{\text{s}})$
Cu	-				
Al	-				

fără multe zecimale (trunc)

$$R = \frac{\rho l}{S} \Rightarrow \rho = \frac{RS}{l}$$

$\sigma = \frac{1}{\rho} \leftarrow \text{conductivitate electrică } (\Omega^{-1} \text{ m}^{-1})$