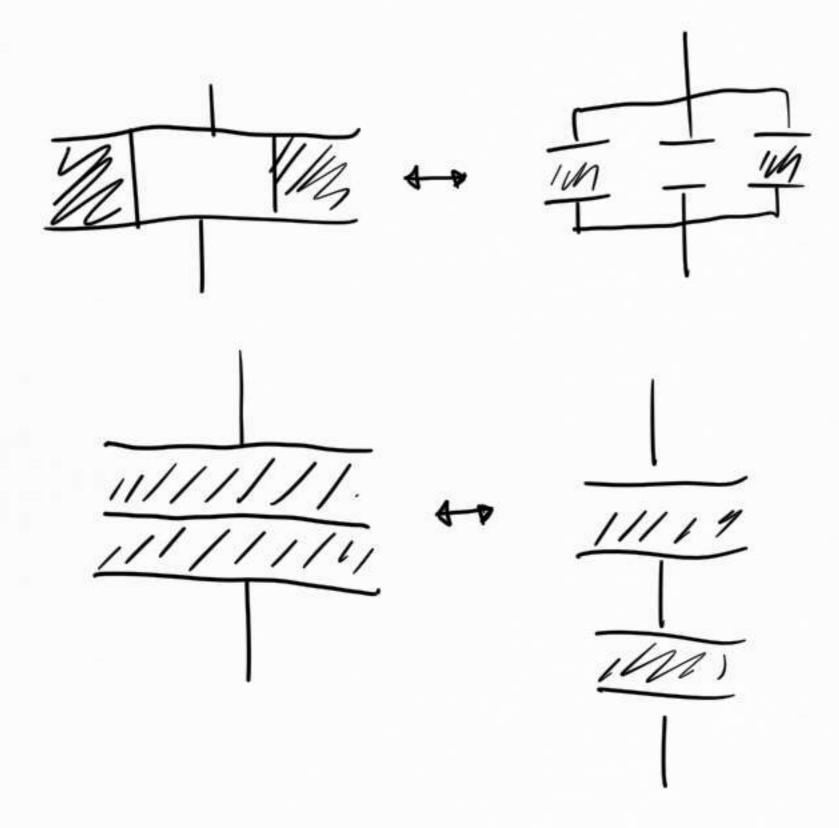
h

$$k$$
 $x \rightarrow a$
 $Q = C \triangle V = Q_d + Q_v$
 $\Delta V = E_d h = \frac{\sigma_d h}{\kappa E_o} = \frac{Q_d}{\chi b} \frac{h}{\kappa E_o} = Q_d \frac{h}{\chi b \kappa E_o} = \frac{Q_d}{C_d}$
 $\Delta V = E_v h = Q_v \frac{h}{(c-\chi)bE_o} = \frac{Q_v}{C_v} \Rightarrow C \Delta V = (C_d + C_v) \Delta V$



b △V = cost, h; → hf = $\frac{3}{2}$ h;

K

1) Cf, Cf-Ci

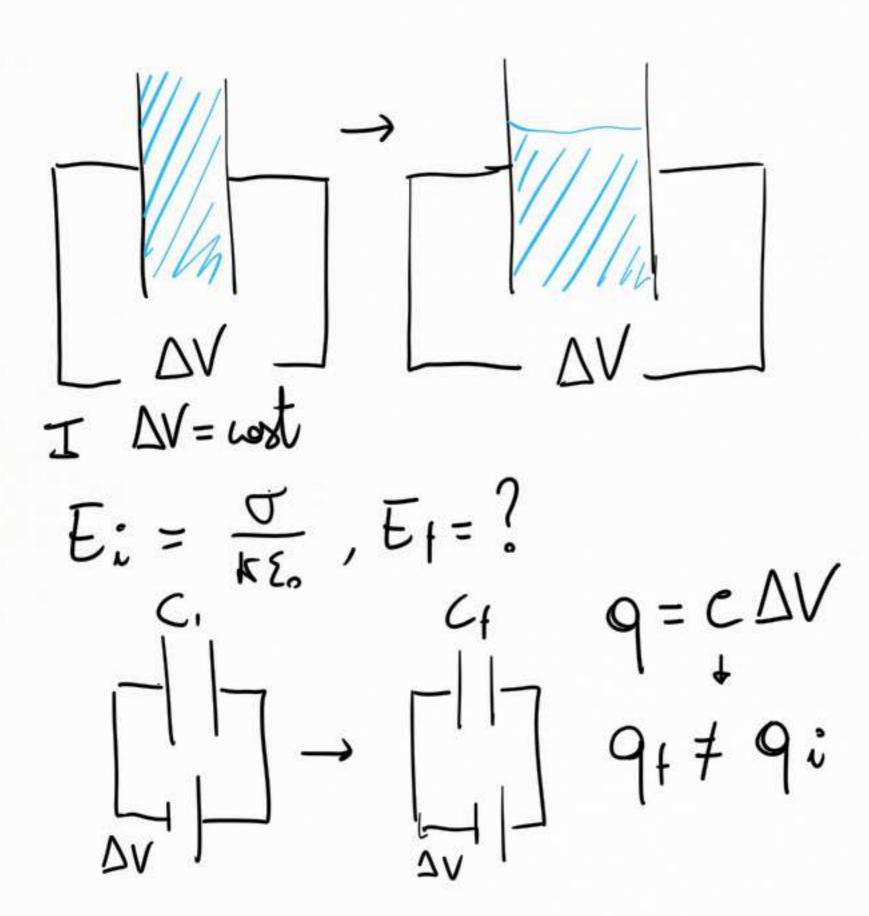
a 2) cose cambre se prime di combierre h stacci
il generatore

$$Cf = Cd + Cv , V_i = abh, V_f = \frac{3}{2}abh,$$

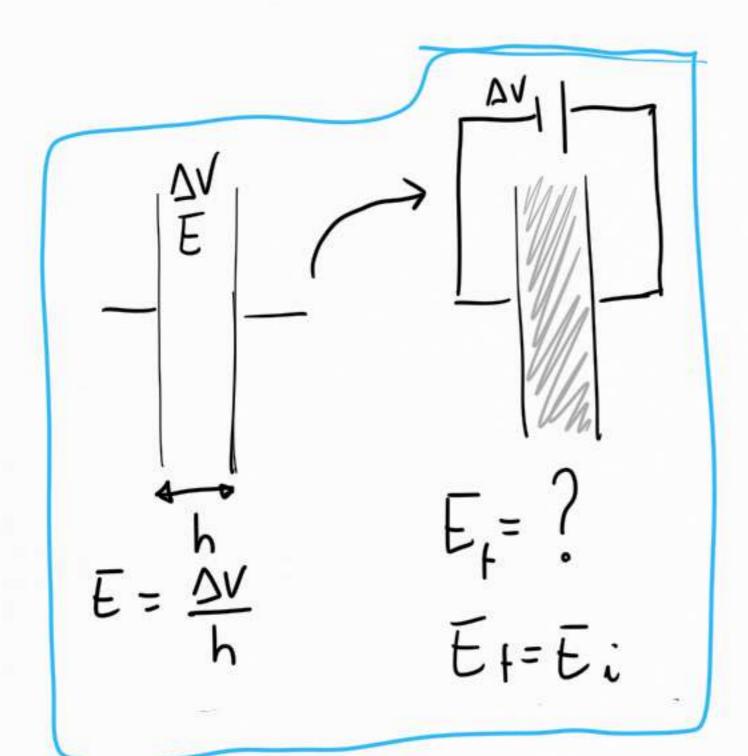
$$Cd = \frac{K\sum_{i} \frac{\varepsilon_{0}}{3}}{\frac{3}{2}h_{i}}, \sum_{i} = \frac{abh_{i}}{\frac{3}{2}h_{i}} = \frac{2}{3}ab \Rightarrow$$

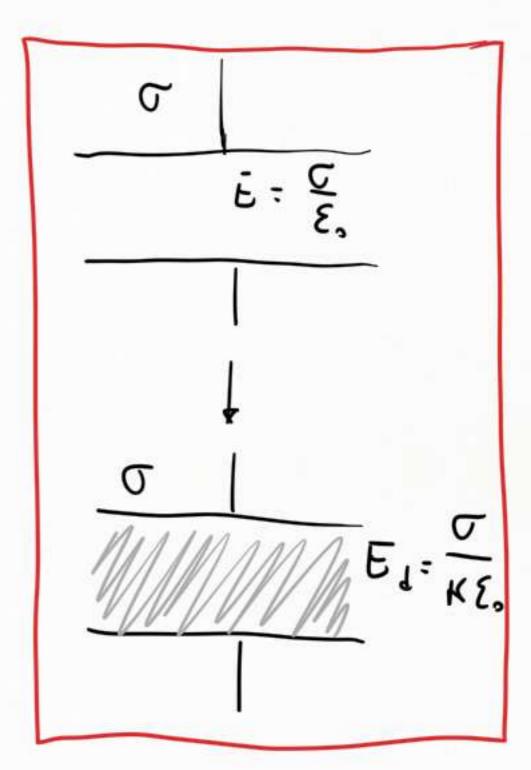
$$Cd = \frac{4}{9} \frac{kab\varepsilon_{0}}{h_{i}}, Cv = \frac{\sum_{i} \varepsilon_{0}}{\frac{3}{2}h_{i}} = \frac{2}{9} \frac{ab\varepsilon_{0}}{h_{i}}$$

$$Cd = Cd + Cv$$



$$Q = CDV, \quad Q_i = Q_f \Rightarrow \Delta V = \frac{Q_i}{C_i} \rightarrow \Delta V_f = \frac{Q_i}{C_f}$$





$$\begin{bmatrix} C_1 & C_2 \\ A & E \\ B & B \end{bmatrix}$$

$$C_{1},C_{2},C_{3},C_{4}: V_{4}-V_{8}=\Delta V_{08}=0$$

$$V_{4}-V_{8}=0 \Rightarrow V_{4}=V_{8}$$

$$V_{5}=0 \Rightarrow V_{5}=V_{8}=0$$

$$\triangle V = \bigvee_{D} - \bigvee_{\bar{E}} = \bigvee_{D} - \bigvee_{A} + \bigvee_{A} - \bigvee_{\bar{E}} = \triangle V_{1} + \triangle V_{2} = \\ = \triangle V_{3} + \triangle V_{4}$$

$$\Delta V_1 = \Delta V_3$$
, $\Delta V_2 = \Delta V_4$

$$C_1$$
 C_2
 AV

$$\Delta V_1 = \Delta V - \Delta V_2 = \Delta V - \frac{9^2}{C_2}$$

$$Q_2 = Q_1 = C_{eq} \Delta V_1$$

$$C_{eq} = \frac{C_1 C_2}{C_1 + C_2}$$

$$\Delta V_{3} = \Delta V - \frac{94}{C_{4}}, \quad 9_{4} = 9_{3} = C_{4}^{0} \Delta V$$

$$C_{44}^{0} = \frac{C_{3}C_{4}}{C_{3}+C_{4}}, \quad \Delta V_{1} = \Delta V_{3} = \frac{9_{4}}{C_{2}} = \frac{9_{4}}{C_{4}} = \frac{9}{C_{4}} = \frac{9}{$$

$$\frac{C_1}{C_1+C_2}=\frac{C_3}{C_3+C_4} \Rightarrow \boxed{C_1C_4=C_2C_3}$$

$$k(r)$$

$$C = 20 \text{ cm}, b = 30 \text{ cm}$$

$$C = 35 \text{ cm}$$

$$K(2) = \frac{12}{2}, 9 = 10 \text{ mC}$$

$$\Delta V = 500 \text{ V}$$

1)
$$q_{\circ} = q_{1}q_{0} = -q_{1}q_{0}$$
, $q_{0} = Q_{0}q_{0}$ $q_{0} = Q_$

$$\nabla P = \overrightarrow{P} \cdot \overrightarrow{N} , \overrightarrow{P} = \xi_{o} (K-1) \overrightarrow{E}$$

$$\overrightarrow{E} = \underbrace{9}_{4\pi} \xi_{o} k(\eta) \overrightarrow{v}^{2} \overrightarrow{v}, \overrightarrow{P} = \underbrace{(k(\eta) - 1) \cancel{Q}}_{4\pi} \cancel{K}(\eta) \cancel{v}^{2}$$

$$= \underbrace{(\frac{\eta}{\alpha} - 1) \cancel{Q}}_{4\pi} \cancel{v} = \underbrace{(\frac{\eta}{\alpha} - 1) \cancel{Q}}_{4\pi} \cancel{v}^{2}$$

$$= \underbrace{(\frac{\eta}{\alpha} - 1)$$