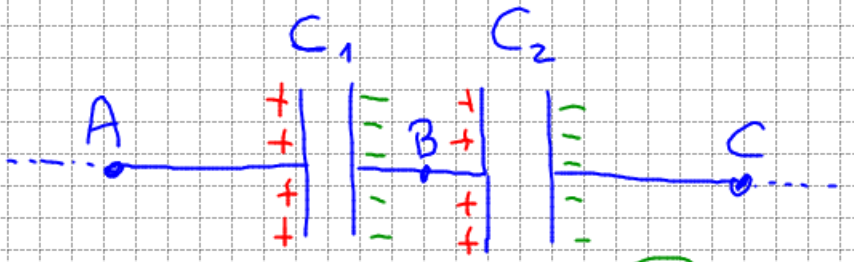


CONDENSATORI IN SERIE E IN PARALLELO

IN SERIE

1/2



$$\Delta V_{eq} = V_{AC} = \Delta V_{AB} + \Delta V_{BC}$$

\downarrow \downarrow

ΔV_1 ΔV_2

$$C = \frac{Q}{\Delta V}$$

$$\Delta V_{eq} = \Delta V_1 + \Delta V_2$$

$$\Delta V_{eq} = \frac{Q}{C_{eq}} \quad \Delta V_1 = \frac{Q}{C_1} \quad \Delta V_2 = \frac{Q}{C_2}$$

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

$$\frac{1}{C_{eq}} = \frac{1}{C_1} + \frac{1}{C_2}$$

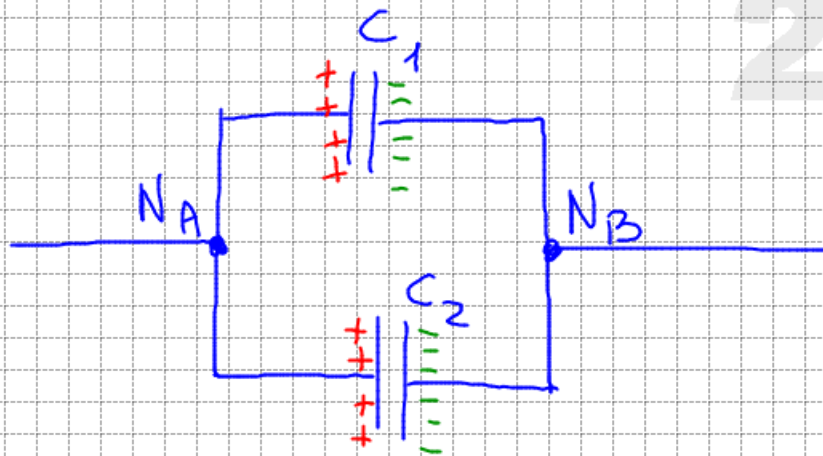
$$C_{eq} = \frac{C_1 C_2}{C_1 + C_2}$$



C_1, C_2, C_3

$$C_{eq} = \frac{C_1 \cdot C_2 \cdot C_3}{C_1 C_2 + C_1 C_3 + C_2 C_3}$$

PARALLELO



$$C = \frac{Q}{\Delta V}$$

$$Q_{eq} = Q_1 + Q_2$$

$$\Delta V_{NA NB} = \Delta V$$

$$Q_{eq} = C_{eq} \Delta V$$

$$Q_1 = C_1 \Delta V \quad Q_2 = C_2 \Delta V$$

$$C_{eq} \Delta V = C_1 \Delta V + C_2 \Delta V$$

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