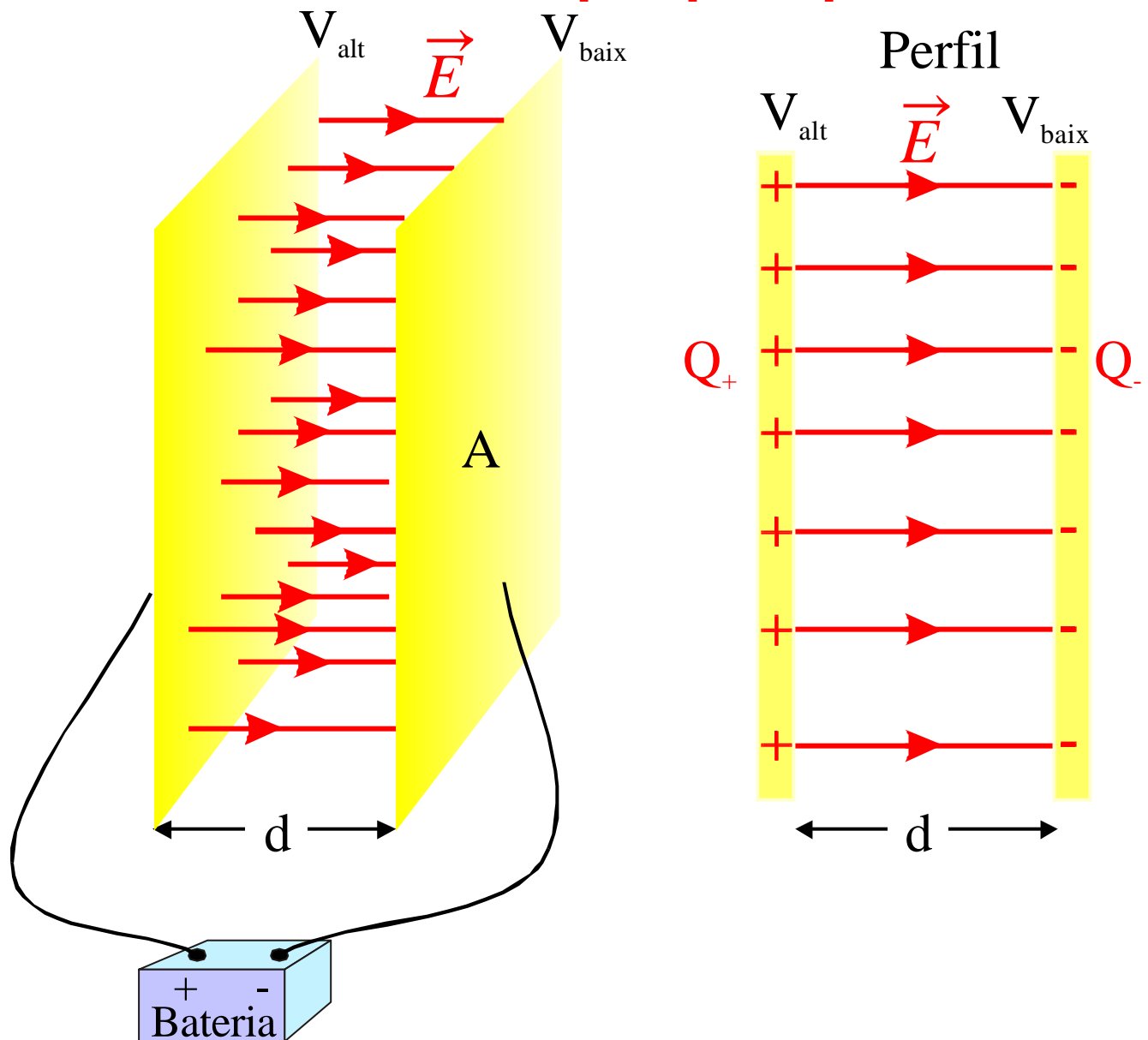


Condensador de plaques paral·leles



$$\begin{aligned}
 V_{alt} - V_{baix} &= - \int_{x=d}^{x=0} \vec{E} d\vec{l} = - \int_{x=d}^{x=0} E dx = - \int_{x=d}^{x=0} \frac{\sigma}{\epsilon_0} dx = \\
 &= - \left[\frac{\sigma}{\epsilon_0} x \right]_{x=d}^{x=0} = \frac{\sigma}{\epsilon_0} d = \frac{Q}{A\epsilon_0} d
 \end{aligned}$$

$$C = \frac{Q}{\Delta V} = \frac{Q}{Qd / A\epsilon_0} = \frac{\epsilon_0 A}{d}$$