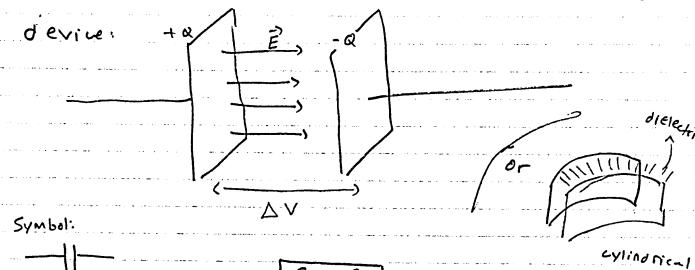
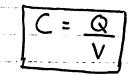


24 Capacitors
Capacitorce: Menns of storing energy

Capacitance: Q charge charge charge charge potential difference potential voltage (drop)





$$C = \frac{\mathcal{E}_0 A}{\mathcal{A}}$$

$$V = \text{higher potential} - |\text{over potential}|$$

$$(s_0 + h_0 + v > 0)$$

$$V = -\int \vec{E} \cdot d\vec{L} = \vec{E} d$$

$$V = \frac{Qd}{E_0A}$$

$$= \frac{Qd}{E_0A} = V$$

-> capacitance does not depend on Q or V.

- depends on dielectric, area, and distance
between