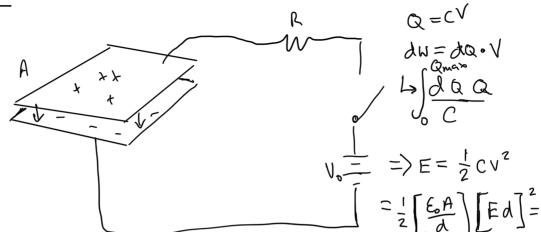
Faraday's Law

$$\oint E \cdot dA = \frac{Q}{E_0}$$

$$E = \frac{Q}{AE_0} = \frac{V}{A}$$



Energy =
$$\left[\frac{1}{2}E_{o}E^{2}\right]$$
 (Ad)

C Volume

energy density of space

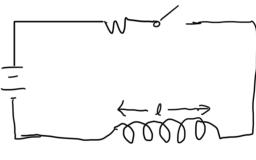
between plates

E-MARA-

$$\Rightarrow B = \frac{\mu N \Gamma}{L} = \mu n \Gamma$$

$$T = \frac{Bl}{\mu N} \qquad \qquad \frac{T}{L} \stackrel{\text{\frac{turns}{length}}}{\text{length}}$$

$$E = \frac{B^2}{2\mu} [Al]$$
magnetic of Volume enclosed by inductor density



$$\frac{dw = VdQ = \frac{dO}{dt} \cdot dQ}{D = N \int \vec{B} \cdot d\vec{A} = NBA = Nn \mu LA}$$

$$\mathcal{E} = \frac{do}{dt} = L\frac{dI}{dt}$$

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