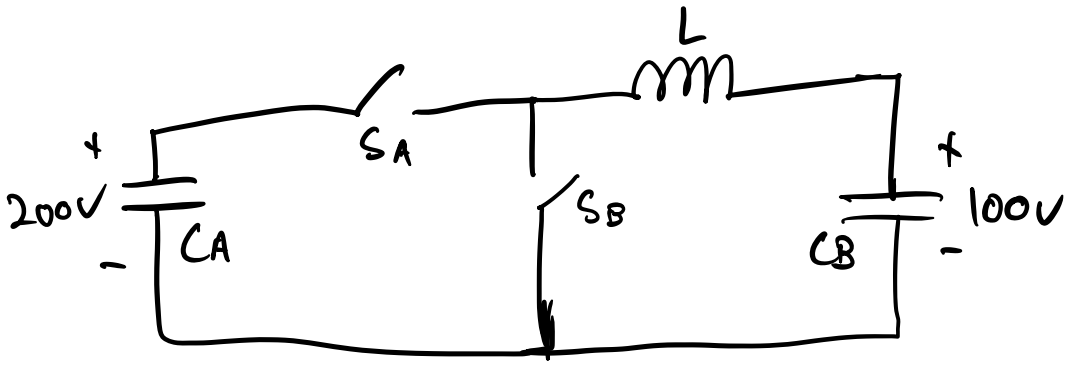
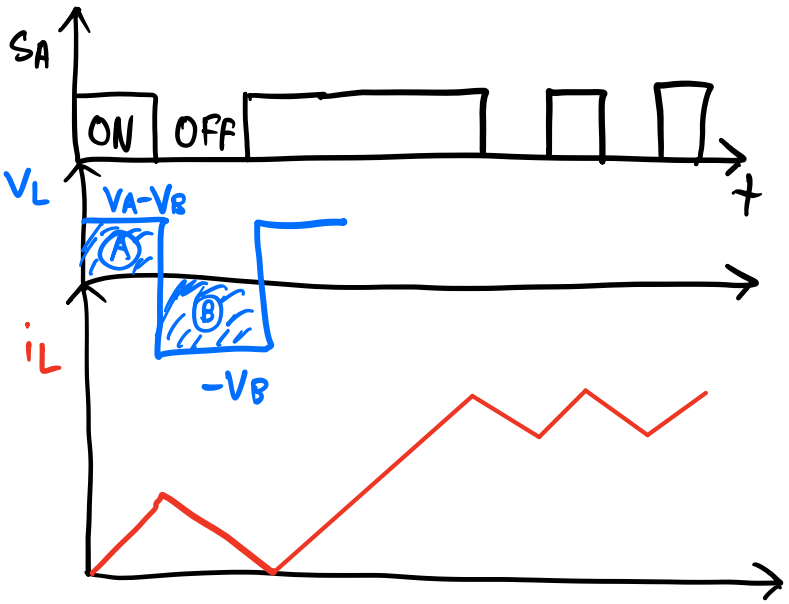


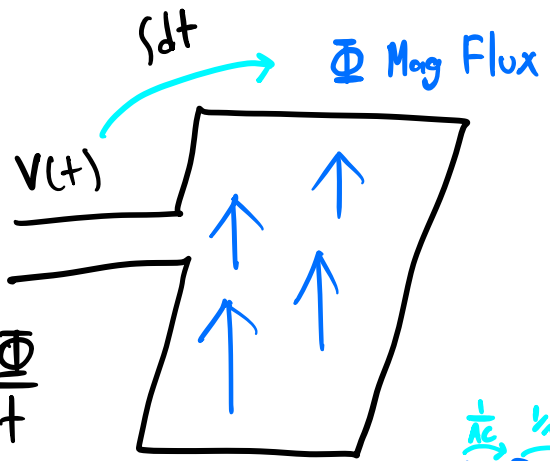
$$V_B = V_A D_A$$

$$V_A = V_B \cdot \frac{1}{1-D_B}$$

$$D_A = 1 - D_B$$

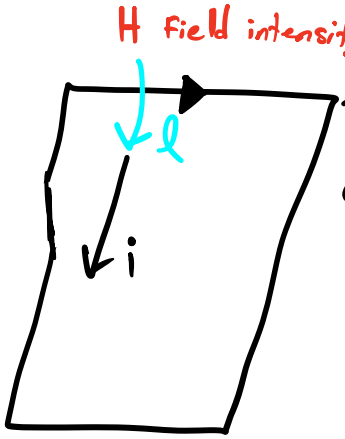


Faraday's Law:



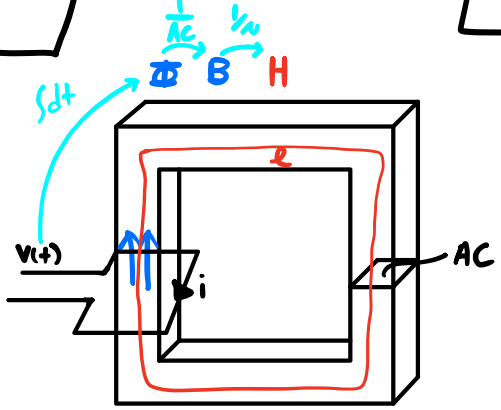
$$v(t) = \frac{d\Phi}{dt}$$

Ampere's Law:



$$\oint H\,dl = i$$

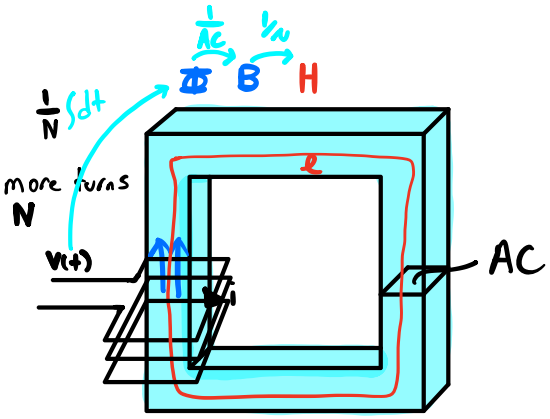
$$H \cdot l = i$$

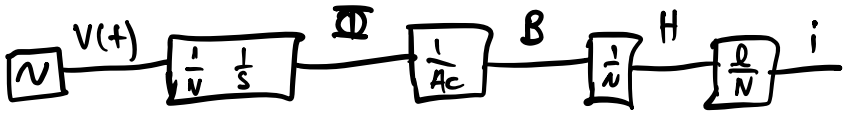


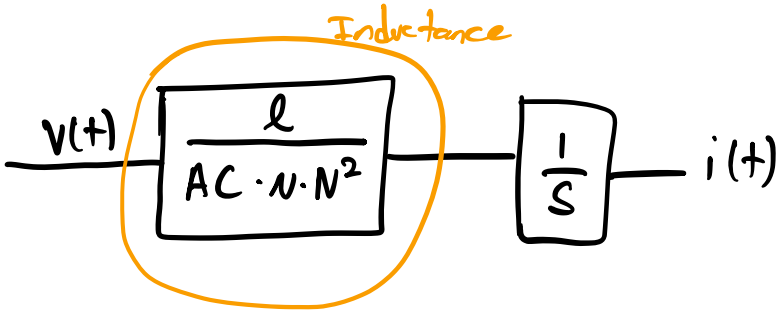
B = Flux Density

H = Field Intensity

$$H = \frac{B}{N}$$ → Permeability







-you pay for permeability (Material)

$$i(t) = \frac{1}{L} \cdot \int i(t)\,dt$$

$$L = N^2 \cdot A_L$$