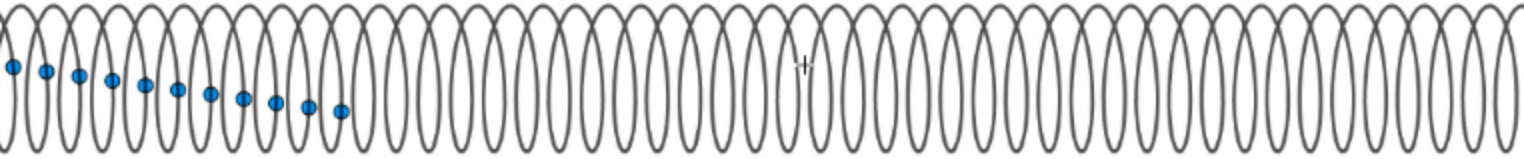
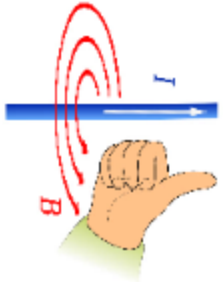
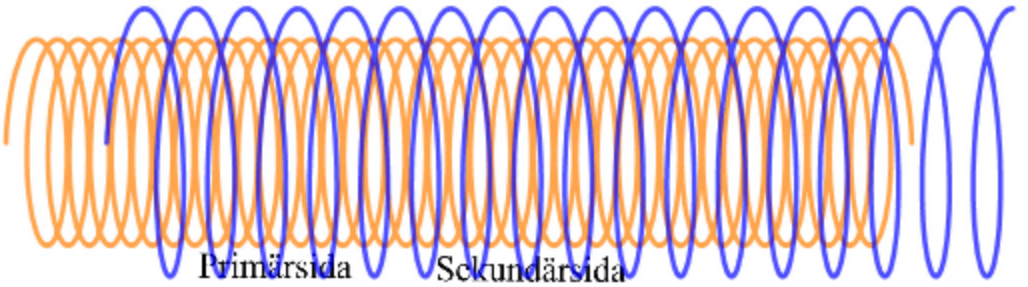
$$\vec{B}_{(n)}\hat{z} = n \cdot I \cdot \hat{z} \qquad n = \frac{N}{l}$$





N_1

N_2



$$\Phi_1 = N_1 \cdot \Phi_{1loop}$$

$$\Phi_2 = N_2 \cdot \Phi_{2loop}$$

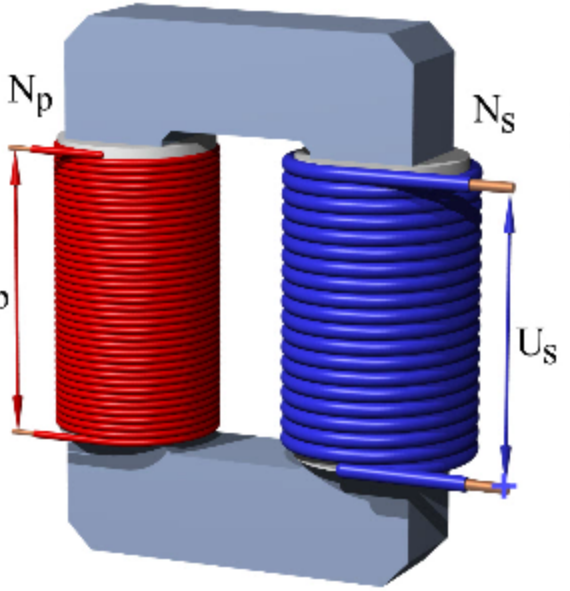
$$\Phi_{1loop} = \Phi_{2loop}$$

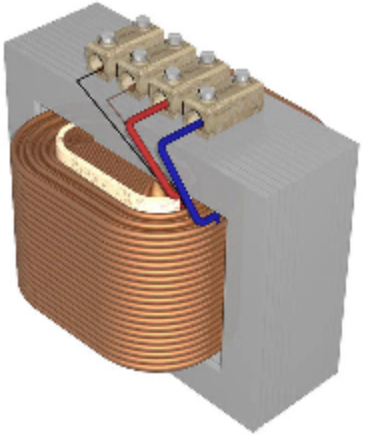
$$\frac{\Phi_1}{\Phi_2} = \frac{N_1}{N_2}$$

$$\Phi_1 = \frac{N_1}{N_2}\,\Phi_2$$

$$\dot{\Phi}_1 = \frac{N_1}{N_2}\,\dot{\Phi}_2$$

$$\epsilon_1 = \frac{N_1}{N_2}\,\epsilon_2$$





$\upsilon t)$

$\cdot\, \hat{z}$

$$\vec{\boldsymbol{B}}_{(n)}\hat{\boldsymbol{z}} = \boldsymbol{n}\cdot\boldsymbol{I}\cdot\hat{\boldsymbol{z}} \qquad I_1 = \alpha t$$

$$r < R_1 \qquad n_1 \cdot I_{(t)} \cdot \hat{z} \qquad R_{es} = \rho \cdot 2\pi R_2$$

$$\Phi_2 = (n_1 \cdot \alpha t)\pi R_1^2 \qquad I_D = \frac{\epsilon}{R_{es}}$$

$$\epsilon = \dot{\Phi} = (n_1 \cdot \alpha)\pi R_1^2$$

$$I_D = \frac{(n_1 \cdot \alpha)\pi R_1^2}{\rho \cdot 2\pi R_2}$$