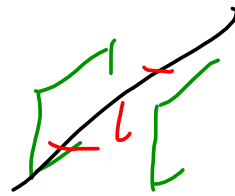
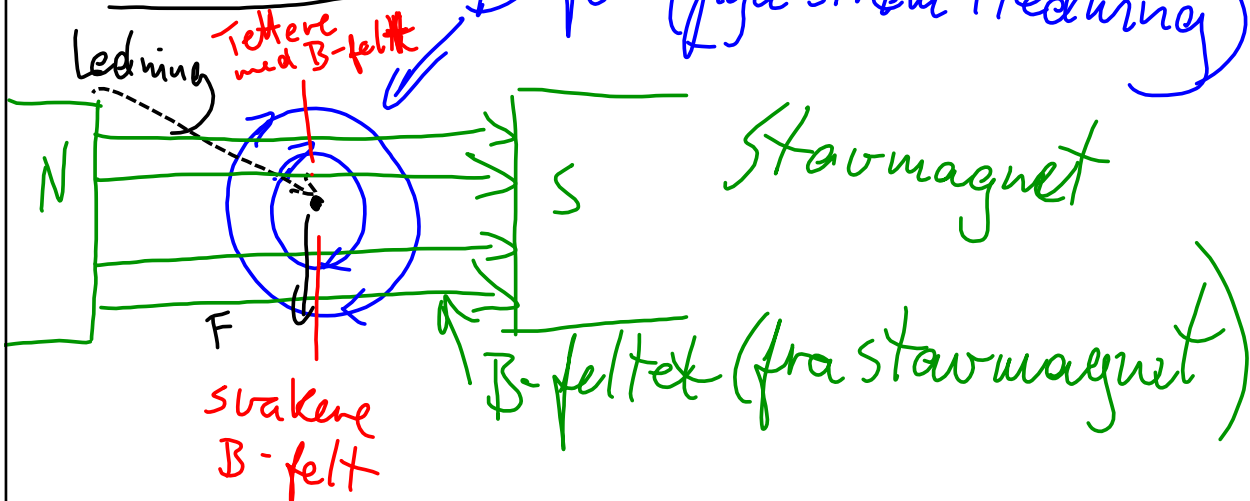


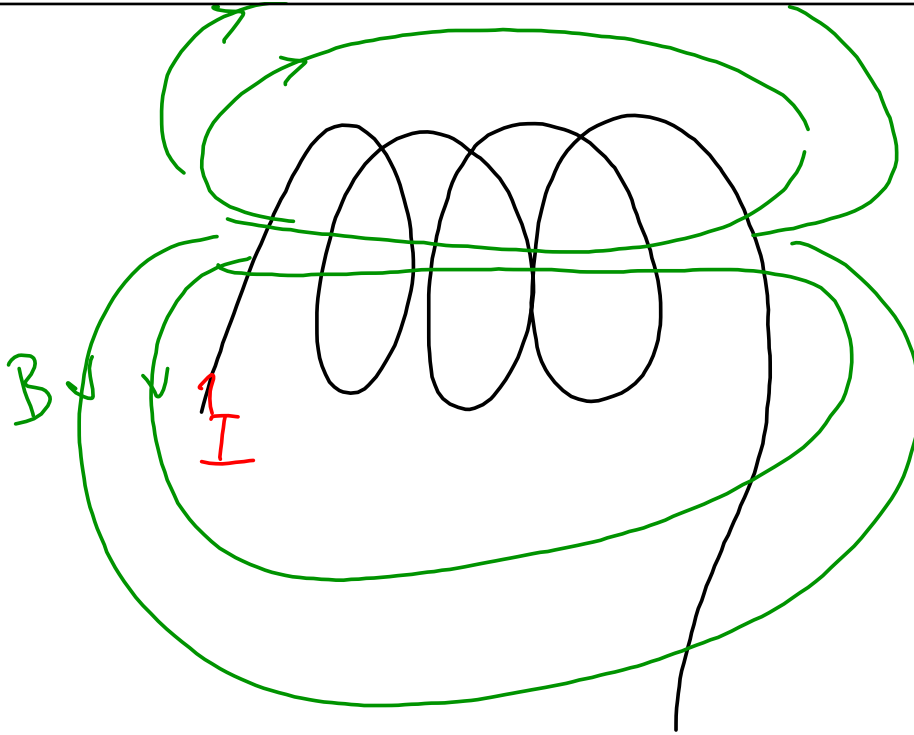
Det genereres en spenning i ledningen, fordi ledningen beveger seg i B-feltet (fra stavmagneten)

$$U_{ind} = B \cdot v \cdot L$$



Meter





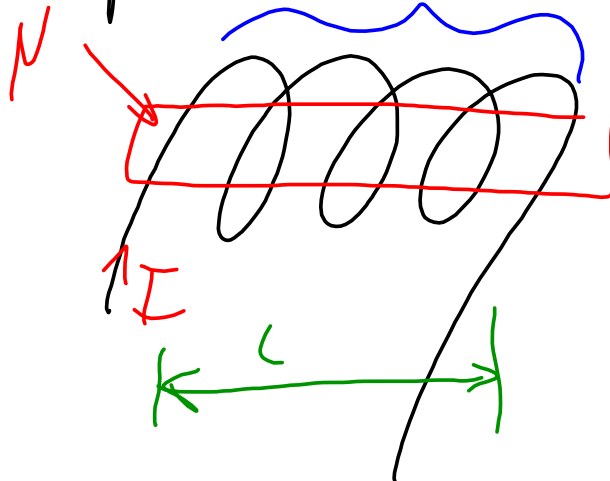
H-felt

$I \cdot N$

$$B = \mu \cdot H$$

Permeabilitet (til materialet)

H-feltet N ← antall viklinger, spoleen



$$H = \frac{N \cdot I}{L}$$

$$B = \mu \cdot H$$

$$B = \mu \cdot H$$

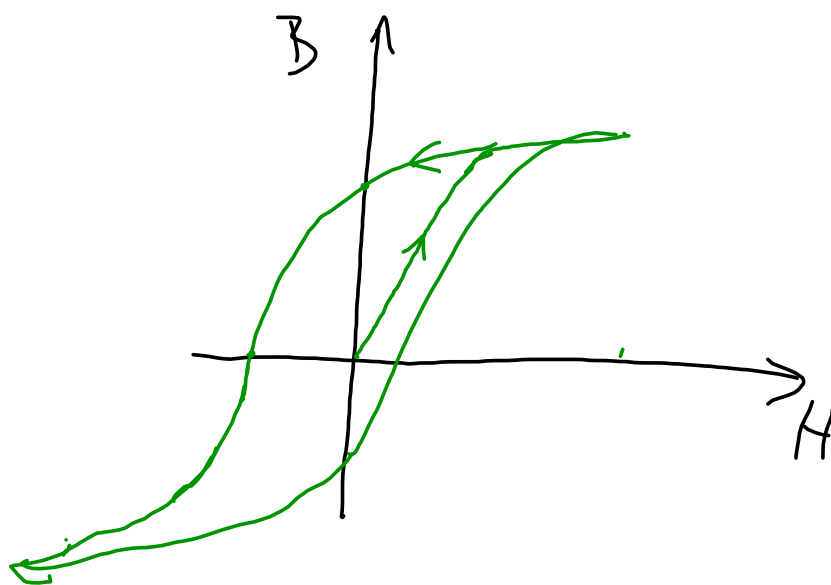
$$H = \frac{N \cdot I}{L}$$

$$H = \frac{F_m}{L}$$

$$F_m = N \cdot I$$

H-feltet:
Magnetisk feltstyrke

BH-kurve



$$\mu = \mu_0 \cdot \mu_r$$

Luft: $4 \cdot \pi \cdot 10^{-7} \left[\frac{\text{Wb}}{\text{A} \cdot \text{t} \cdot \text{m}} \right]$

↖ Permeabiliteten
 Materialets magnetiske ledningsevne
 oppgis i tabeller

Magnetisk motstand R_m (R_m)

$$R_m = \frac{L}{\mu \cdot A}$$

$$\phi = \frac{F_m}{R_m} = \frac{N \cdot I}{R_m}$$

Spole

Størrelsen angis med

$$L = X [H]$$

↑ symbol ↑ størrelse ↑ Henry

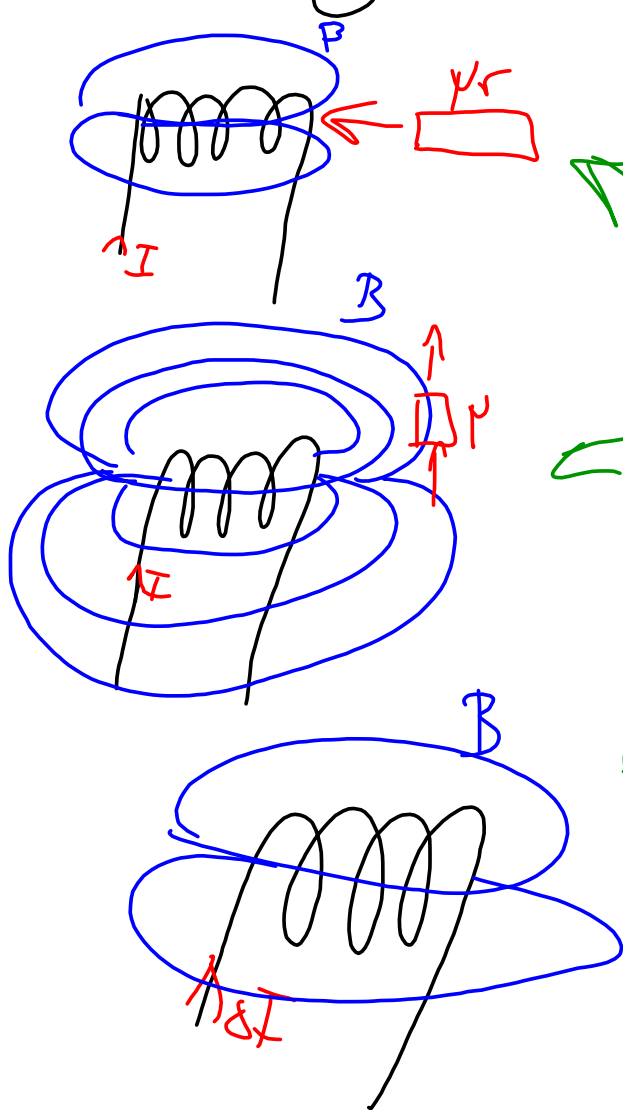
Belegning: Induksjonsloven

↓ Faradays lov: $U_{ind} = -N \frac{d\phi}{dt}$

↑ Lenz
lov

↑ Fluxforandring
per tidsenhet

Forandring av Φ ønskes ikke av spolen



Vil gi
en vind

↳ fordi magnetfeltet
B ønskes
ingen forandring