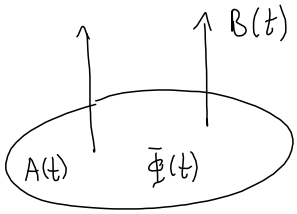
Faradays induksjonslov

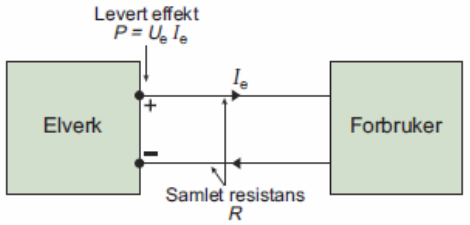


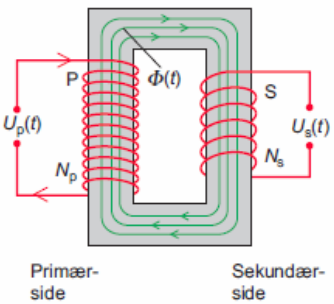
$$\mathcal{E}(t) = -\bar{\Phi}'(t)$$

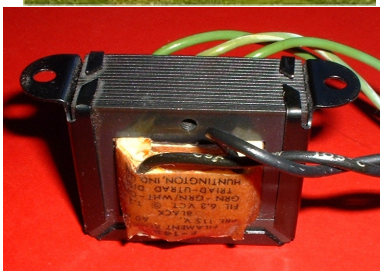
mai 16-13:07

Transformator

$$\mathcal{E} = -\bar{\Phi}'(t)$$







$$U_s = -N_s \bar{\Phi}'(t)$$

$$U_p = -N_p \bar{\Phi}'(t)$$

$$\frac{U_s}{U_p} = \frac{N_s}{N_p}$$

$$U_s = U_p \cdot \frac{N_s}{N_p}$$

Effekt inn: $P_p = U_p \cdot I_p$

Effekt ut: $P_s = U_s I_s$

$$P_s = P_p : \quad U_p I_p = U_s I_s \qquad I_s = I_p \frac{U_p}{U_s} = I_p \frac{N_p}{N_s}$$

mai 18-14:53

Eksempel

$N_p = 600$ $N_s = 12000$

$U_p = 230V$ $U_s = U_p \cdot \frac{N_s}{N_p} = 230V \cdot \frac{12000}{600} = 4600\ V$

$\frac{12000}{600} = 20$

$N_p = 600$ $N_s = 6$

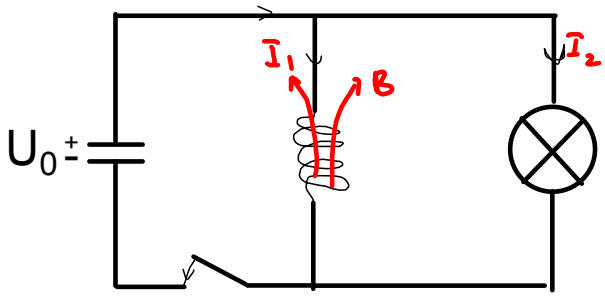
$U_p = 230V$ $U_s = U_p \cdot \frac{N_s}{N_p} = 230V \cdot \frac{6}{600} = 2{,}3\ V$

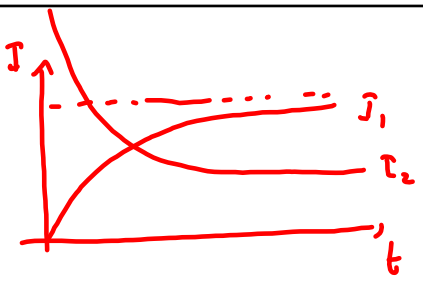
May 20-10:20 AM

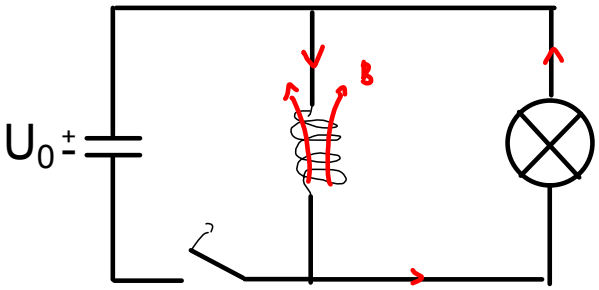
Hvordan kan det ha seg at isen ikke smelter, men vannet koker?

May 24-8:45 AM

Selvinduktans



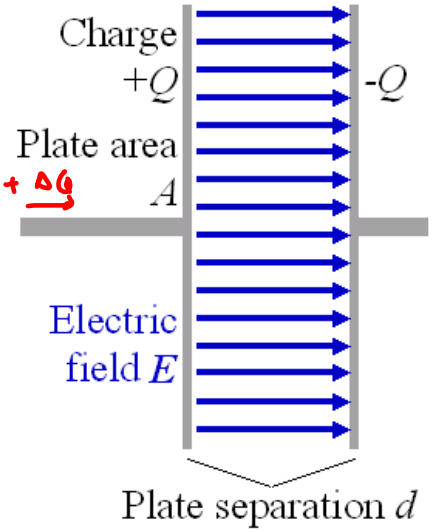


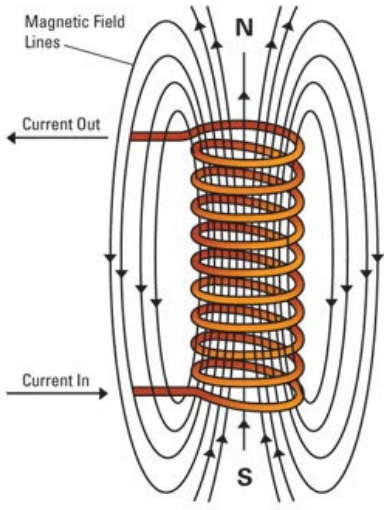


http://phet.colorado.edu/en/simulation/circuit-construction-kit-ac

May 16-11:49 AM

Energi i elektriske og magnetiske felt





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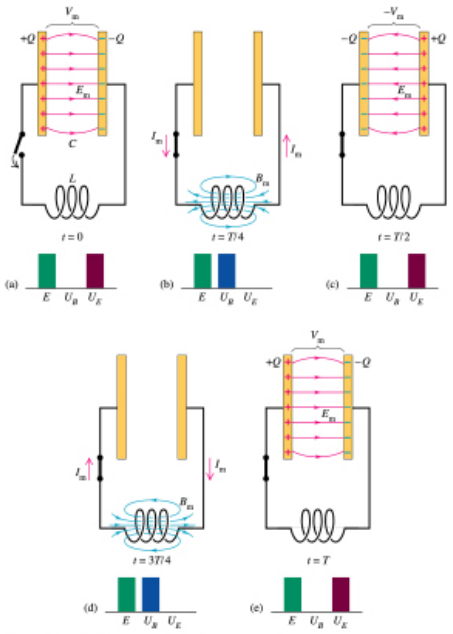
LC-krets



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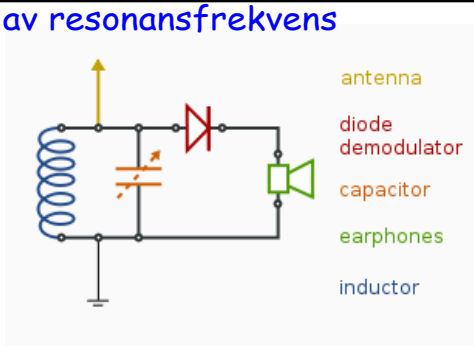
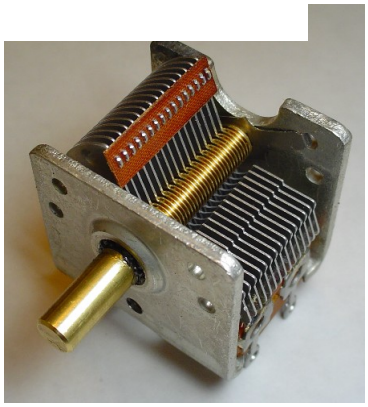
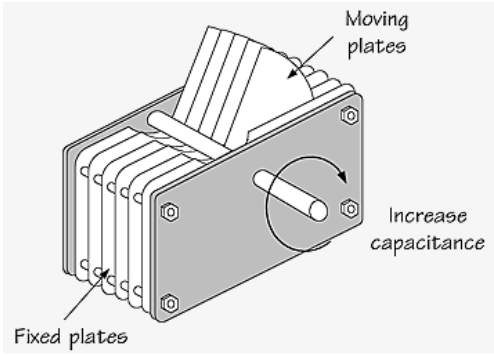
May 24-11:37 AM

Variabel kondensator for justering av resonansfrekvens

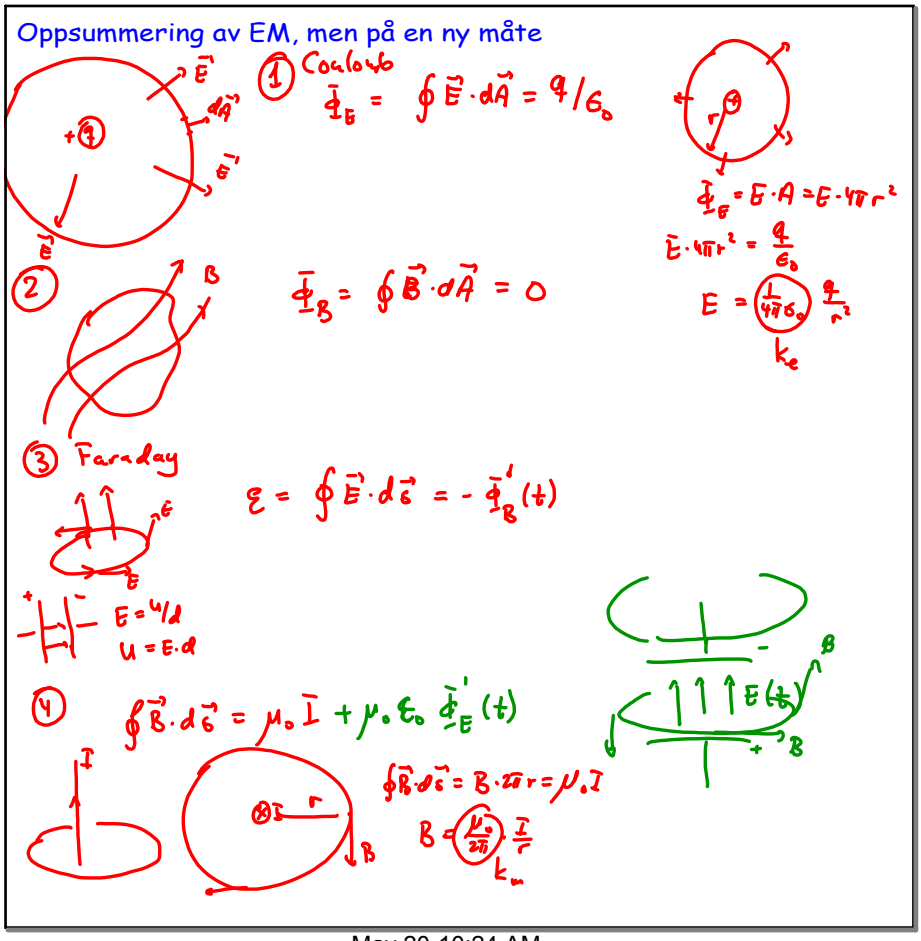






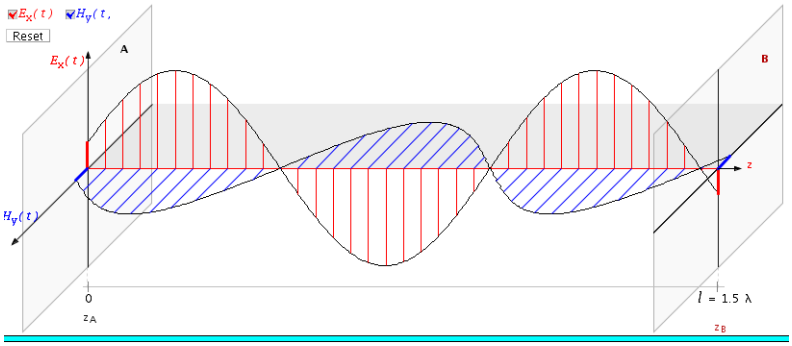
May 16-10:57 AM

Oppsummering av EM, men på en ny måte

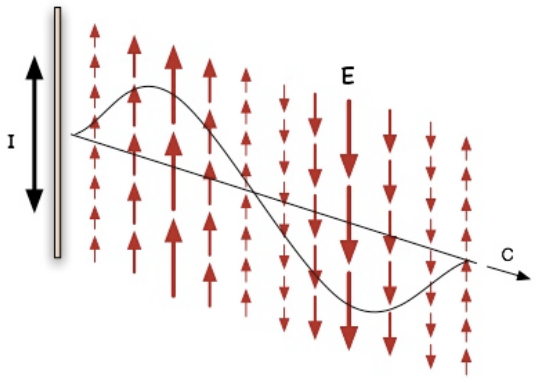


May 20-10:24 AM

EM bølger



http://www.amanogawa.com/archive/PlaneWave/PlaneWave-2.html



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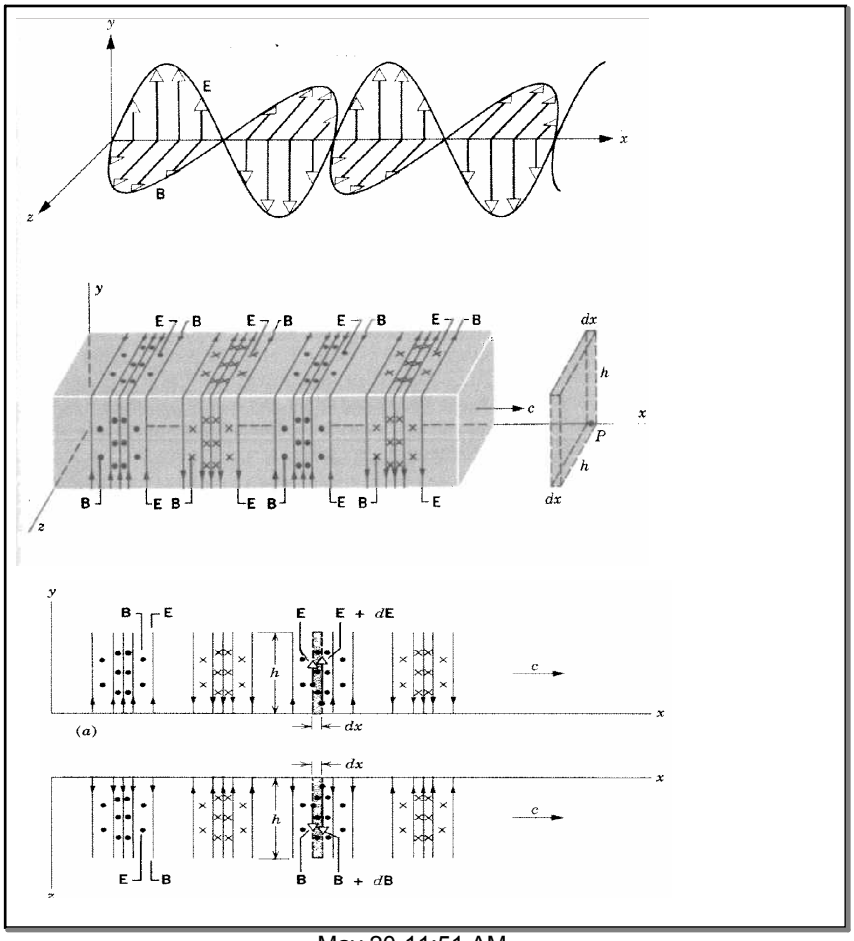

May 20-11:51 AM

Apr 14-4:31 PM