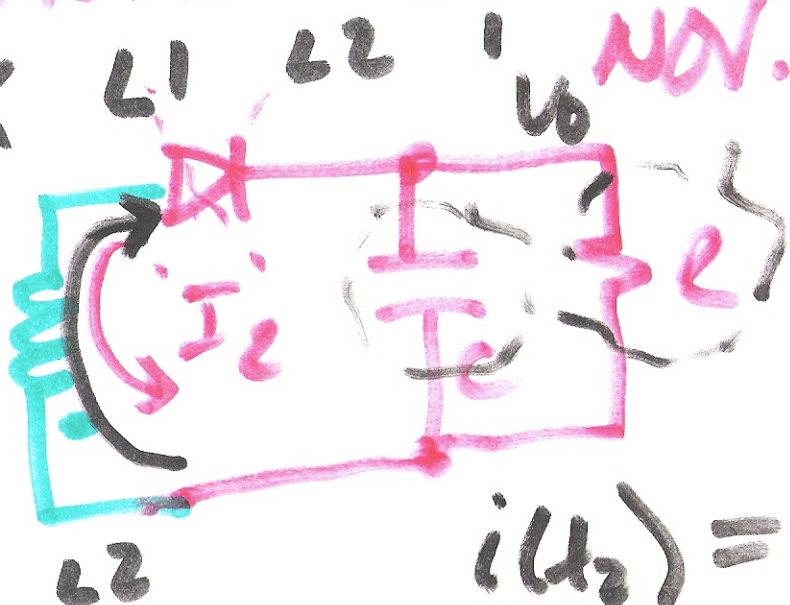
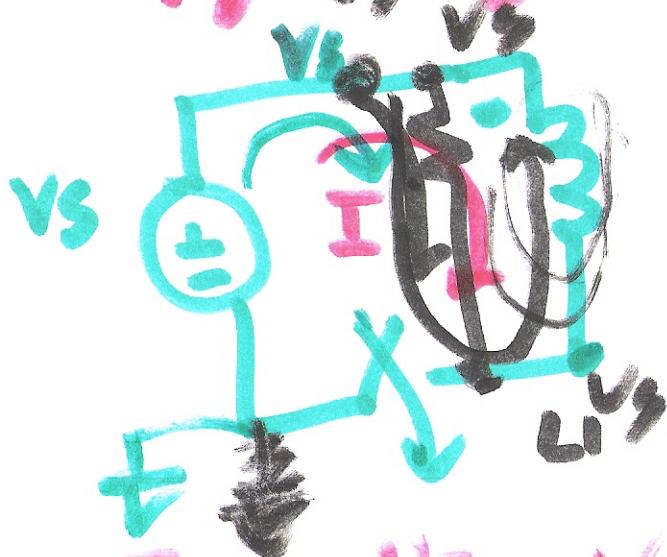


Lecture 33

NOV. 12, 2010

$$\frac{V_1}{V_2} = \frac{N_1}{N_2}$$



$$\frac{1}{2} L i(t_2)^2 = \mathcal{E}$$

$$i(t_2) = \frac{V_s}{L_m} \cdot (t_2 - t)$$

$$\frac{I_1}{I_2} = \frac{N_2}{N_1}$$

$$\frac{V_s}{L_m} = \frac{di}{dt} \quad (\text{switch closed})$$

$$\frac{V_o^2}{R} = \frac{\frac{1}{2} L i(t)^2}{T}$$

t - close the switch
 $t_2 \rightarrow$ open switch

1)