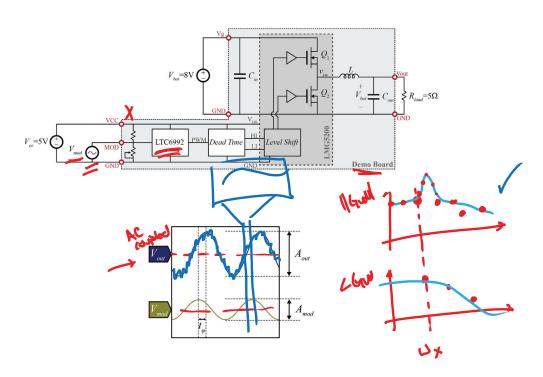
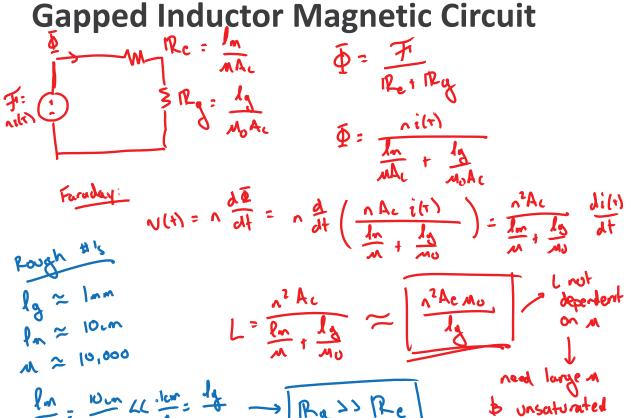
Announcements

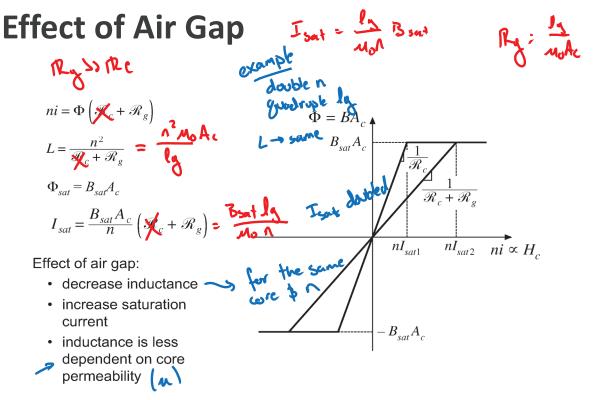
- Experiment 3:
 - https://doodle.com/poll/3ke8ynnxk8x2ufzw
 - Transfer function characterization
 - Minimal writeup
- Homework 11:
 - Due Monday, Dec 4th



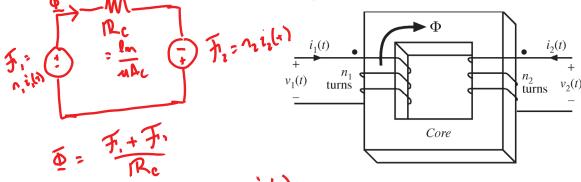
Experiment 3

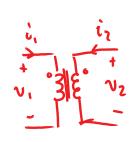






Transformer Example





TENNESSEE TENNESSEE

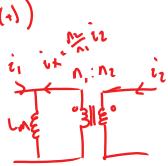
Nonideal Transformer Mis forte

$$N_{1} = n_{1} \frac{d\overline{Q}}{dt} = n_{1} \frac{d}{dt} \left(\frac{n_{1} i_{1}(r) + n_{2} i_{2}(r)}{\frac{1}{n_{1}} n_{1}} \right)$$

$$N_{1} = \frac{n_{1}^{2} n_{1} A_{1}}{I_{1}} \frac{\lambda}{dt} \left(i_{1}(r) + \frac{n_{2}}{n_{1}} i_{2}(r) \right)$$

$$N_{2} = \frac{n_{1}^{2} n_{1} A_{1}}{I_{2}} \frac{\lambda}{dt} \left(i_{1}(r) + \frac{n_{2}}{n_{1}} i_{2}(r) \right)$$

$$N_{3} = \frac{n_{1}^{2} n_{2} A_{1}}{I_{2}} \frac{\lambda}{dt} \left(i_{1}(r) + \frac{n_{2}}{n_{1}} i_{2}(r) \right)$$



Saturation:

Only current through Lm inerecuses core
$$B(t)$$

i, β is do not

 $B(t) = \int_{1}^{\infty} A_{c} \int V_{s}(t) dt = \int_{2}^{\infty} A_{c} \int V_{s}(t) dt$
 $A_{sat} = \int_{1}^{\infty} A_{sat} = \int_{1}^{\infty} A_{sat} \int_{1}^{\infty} V_{s}(t) dt$