

ENSC 220
Fall 2005

Lab 2:
RL Circuit

Group #

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Dr. Glenn Chapman
November 7th, 2005

Ensc 220 Lab 3 Worksheet (Due Nov. 7th 2005)

1.

		Design Values						
		<i>Tap 1</i>	<i>Tap 2</i>	<i>Tap 3</i>	<i>Tap 4</i>	<i>Tap 5</i>	<i>Tap 6</i>	<i>End Tap</i>
<i>n</i> (turns)								
<i>l</i> (inches)								

2.

		Inductance						
		<i>Tap 1</i>	<i>Tap 2</i>	<i>Tap 3</i>	<i>Tap 4</i>	<i>Tap 5</i>	<i>Tap 6</i>	<i>End Tap</i>
Calculated								
Bridge								
Your Method								

		Resistance						
		<i>Tap 1</i>	<i>Tap 2</i>	<i>Tap 3</i>	<i>Tap 4</i>	<i>Tap 5</i>	<i>Tap 6</i>	<i>End Tap</i>
Bridge								

3. Describe your method for measuring the inductance of the coil:

4.

Resistance added:	
Total resistance:	

	τ
Calculated:	
Measured rising:	
Measured falling:	

V applied:	
I peak:	

Attach one page that gives the two screen captures requested in part 4 of the lab handout as well as your measurement of the peak current and an explanation of how you found it.