

PART 3 – LAB EXPERIMENT: R, L, C circuits using A.C. theory

(a) PRE-LAB:

- Calculate the total impedance of the circuit in Figure 1.
- Calculate the total impedance of the circuit in Figure 2.

(b) EXPERIMENT:

- Objective** - To examine the voltage and current relationship in a series-parallel RLC circuit.
- Materials** - See circuits below:

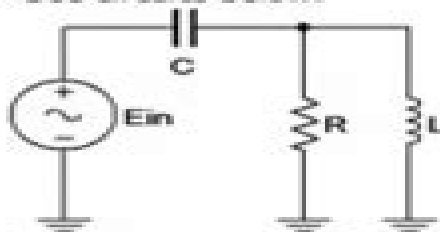


Figure 1

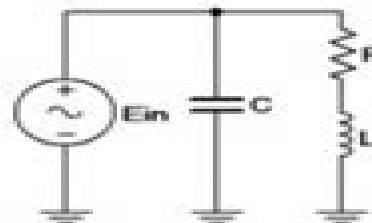


Figure 2

- Procedure** -
 - Build the circuit in Figure 1 using $R=1k\Omega$, $L=10mH$, and $C=10nF$. Set the generator to a 10kHz sine wave and 10V p-p.
 - Measure and record the voltage across each component and the current flowing through each component.
 - Repeat steps 1 and 2 using Figure 2.
- Results** - Record all readings in the table 1 below.

CIRCUIT	VOLTAGES			CURRENTS		
	V_C	V_L	V_R	I_C	I_L	I_R
Figure 1						
Figure 2						

- Analysis** - Complete the table below (show all calculations for values obtained).

CIRCUIT	TOTAL VOLTAGE	TOTAL CURRENT	TOTAL IMPEDANCE
Figure 1			
Figure 2			

- Conclusion** - Examine:
 - the measured impedances obtained in the analysis with the calculated impedances from the pre-lab for each circuit and state any differences in values.
 - the method used for Figure 1 and Figure 2 by stating which method is more accurate, easier and more suitable for RLC circuits using AC theory. Give reasons for your selection.

Conclusion For Series Circuit For Lab Report

G Thomas



Conclusion For Series Circuit For Lab Report:

Conclusion For Series Circuit For Lab Report Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Conclusion For Series Circuit For Lab Report**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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