



LABORATORY EXPERIMENT NO. 3

SERIES and PARALLEL RLC CIRCUIT

I. DISCUSSION

Resistance and impedance both represent opposition to the flow of alternating current. Both are measured in terms of the same unit, the ohm. To determine the magnitude of the total impedance, we have to get the sum of the impedances of each of the elements in series. As long as we carry out all the necessary calculations by vector algebra, we use all the relationships studied earlier under DC circuits.

The total impedance may not always increase with the addition of another element in series. Capacitive reactance could cancel out inductive reactance, and vice versa. An extreme case would have the capacitive reactance completely cancelling out the inductive reactance. This results in resonance and high voltage and currents could result.

In working with resistances in parallel, we found that the more resistors we connect in parallel, the less is the total resistance. In a way, the solution of parallel circuits is a bit more involved than the solution of series circuits. In solving parallel circuits, we use the same procedure as before but the results are less predictable.

The total impedance would depend on the nature of the elements. The total impedance may not always become smaller with the additional elements in parallel.

II. OBJECTIVES

- To describe the characteristics of a series RLC circuit.
- To study the characteristics of a parallel RLC circuit.

III. MATERIALS

- AC Voltmeter
- AC Ammeter
- Lamp
- Inductor
- Capacitor
- 24 V AC power supply

IV. PROCEDURE

SERIES RLC

1. Connect the circuit shown in Figure 1.
2. Set the AC power supply to 24V, 0.2 Hz. For the values of the components use your student number.
3. Measure and record the current and the voltage across each of the elements.
4. Using Ohm's law, compute for the total impedance.
5. Compute for the total impedance Z_T using the capacitance and inductance of the elements.

Basic Ee Interview Set

Michael Hoelscher

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