



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

Anthony S. Fauci

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

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Ten Essential Skills for Electrical Engineers Barry L. Dorr, 2014-01-21 The book is a review of essential skills that an entry level or experienced engineer must be able to demonstrate on a job interview and perform when hired It will help engineers prepare for interviews by demonstrating application of basic principles to practical problems Hiring managers will find the book useful because it defines a common ground between the student s academic background and the company s product or technology specific needs thereby allowing managers to minimize their risk when making hiring decisions Ten Essential Skills contains a series of How to chapters Each chapter realizes a goal such as designing an active filter or designing a discrete servo The primary value of these chapters however is that they apply engineering fundamentals to practical problems The book is a handy reference for engineers in their first years on the job Enables recent graduates in engineering to succeed in challenging technical interviews Written in an intuitive easy to follow style for the benefit of busy students and employers Book focuses on the intersection between company specific knowledge and engineering fundamentals Companion website includes interview practice problems and advanced material

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