

LAB 5: Computer Simulation of RLC Circuit Response using PSpice

PURPOSE

To use a computer simulation program (PSpice) to investigate the response of an RLC series circuit to:

- (a) a sinusoidal excitation.
- (b) a step excitation under conditions of underdamping, critical damping and overdamping.

EQUIPMENT

- (i) Student computer network station.
- (ii) OrCad Capture PSpice circuit simulation software.

This lab is to be done individually unless equipment shortages require otherwise.

BACKGROUND

Part 1. Frequency Domain Response of RLC Circuit to Sinusoidal Excitation

Figure 1 shows a series RLC circuit driven by an ideal voltage source, V_s .

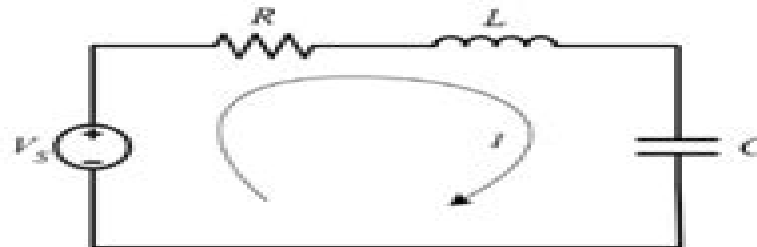


Figure 1. Series RLC circuit.

The loop current I is given by:

$$I = \frac{V_s}{R + j\omega L + \frac{1}{j\omega C}} = \frac{V_s}{R + jX} \quad (1)$$

where:

$$X = \omega L - \frac{1}{\omega C} \quad (2)$$

The magnitude of the current phasor is:

Electrical Simulation Pspice Lab Manual

Siddappa N.Byrareddy



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