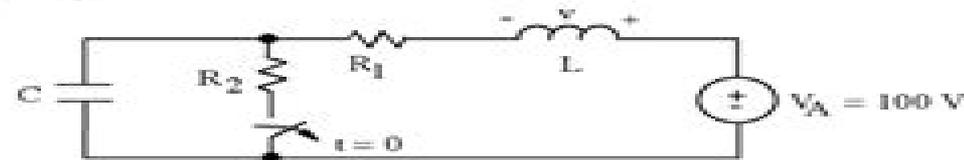


1. (50 points)



After having been open for a long time, the switch is closed at $t = 0$.

$$R_1 = 12.5 \Omega$$

$$R_2 = 12.5 \Omega$$

$$L = 6.25 \mu\text{H}$$

- Two capacitances are available: 250 nF and 2 nF. Specify the value of C that will make $v(t)$ overdamped.
- Using the value of C found in (a), write a time-domain expression for $v(t)$.

ans: a) $C = 250 \text{ nF}$

b) $v(t) = 13.3 (e^{-0.4\text{Mt}} - e^{-1.6\text{Mt}}) \text{ V}$

sol'n: (a) To make the response overdamped, we must have two real characteristic roots. We use the circuit for $t > 0$, consisting of C , R_1 , L , and v_A in series. We may find the characteristic equation by looking it up in a textbook or by setting the impedance of R_1 , C , and L in series to zero.

$$z = R_1 + \frac{1}{sC} + sL = s^2 + \frac{R_1}{L}s + \frac{1}{LC} = 0$$

The characteristic roots for the quadratic equation are

$$s_{L2} = -\frac{R}{2L} \pm \sqrt{\left(\frac{R}{2L}\right)^2 - \frac{1}{LC}}$$

or

$$s_{L2} = -\alpha \pm \sqrt{\alpha^2 - \omega_0^2} \quad \alpha = \frac{R}{2L} \quad \omega_0 = \frac{1}{\sqrt{LC}}$$

We want an overdamped response. (real roots $\alpha^2 > \omega_0^2$).

$$\alpha = \frac{R}{2L} = \frac{12.5 \Omega}{(2) 6.25 \mu\text{H}} = \frac{12.5}{12.5} \text{ M rad/s} = 1 \text{ M rad/s}$$

Try each C value in turn.

Final Exam Solution

Mark McCombs



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