

CHAPTER 2: PROBLEM SOLUTIONS

2.1 A source is connected through a switch to a load that is either a resistor, a capacitor or an inductor. At $t = 0$, the switch is closed and current delivered to the load results in the voltage shown below. What is the circuit element and what is its magnitude?

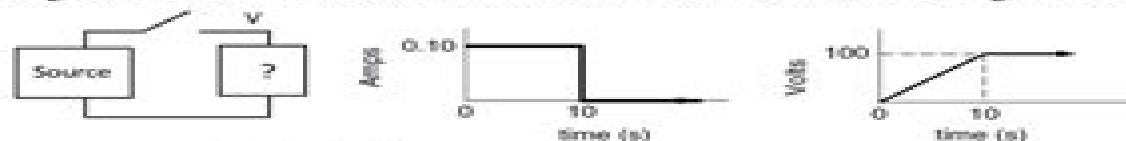


Figure P2.1

SOLN:

The relationship follows the form $i = C \, dv/dt$, so it is a **CAPACITOR**.

$$C = \frac{i}{dv/dt} = \frac{0.1}{100/10} = 0.01F$$

2.2 A voltage source produces the square wave shown below. The load, which is either an ideal resistor, capacitor or inductor, draws current as shown below.

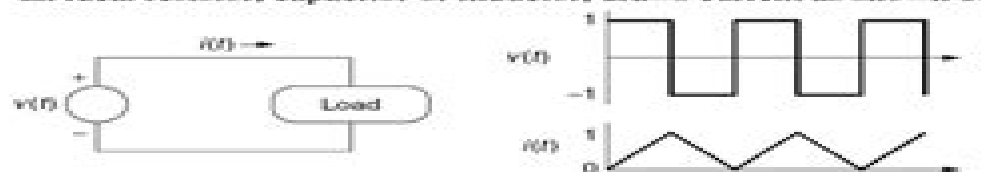


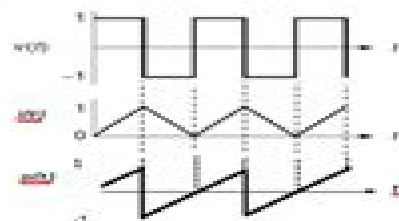
Figure P2.2

a. Is the "Load" a resistor, a capacitor or an inductor?

SOLN: Since $v = L \frac{di}{dt}$ fits the graph, while $v = Ri$ and $i = C \frac{dv}{dt}$ do not, is an **INDUCTOR**

b. Sketch the power delivered to the load versus time.

SOLN:



c. What is the average power delivered to the load?

Electric Power Systems Solution Manual

Syed A. Nasar



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