

Q4. (200 pts)

- (a) (100pts) Consider the circuit given. The input voltage source waveform is shown on the right. (Be careful about the units!)
- (b) Sketch  $i_1(t)$ .
- (c) Sketch  $i_2(t)$  assuming that  $i_1(0) = 0$ .
- (d) Sketch  $i_3(t)$ .



$$(b) i_1(t) = i = \frac{100 \text{ mV}}{10 \text{ m}\Omega} = 10 \frac{\text{mA}}{\text{ms}}$$

$$= \begin{cases} 10 \frac{\text{mA}}{\text{ms}} & 0 \leq t < T_0 \\ -10 \frac{\text{mA}}{\text{ms}} & T_0 \leq t < 3T_0 \end{cases}$$

$$= \begin{cases} 10 \frac{\text{mA}}{\text{ms}} & 0 \leq t < T_0 \\ -10 \frac{\text{mA}}{\text{ms}} & T_0 \leq t < 3T_0 \end{cases}$$

$$i_1(t) = i_2(t) = \frac{1}{L} \int_0^t v_s(t) dt$$

$$= \frac{1}{10 \text{ mH}} \int_0^t v_s(t) dt \quad 0 \leq t < T_0$$

$$i_1(t) = \frac{1}{10 \text{ mH}} \left( 10 \text{ mV} \cdot t \right)$$

$$= 1 \text{ A} \cdot t$$

$$i_1(t) = \frac{1}{10 \text{ mH}} \left( 10 \text{ mV} \cdot T_0 + 10 \text{ mV} \cdot (t - T_0) \right)$$

$$= 1 \text{ A} \cdot t$$

$$i_1(t) = \frac{1}{10 \text{ mH}} \cdot \frac{1}{2} \cdot T_0^2 \quad 0 \leq t < T_0$$

$$= \frac{1}{2} \cdot T_0$$

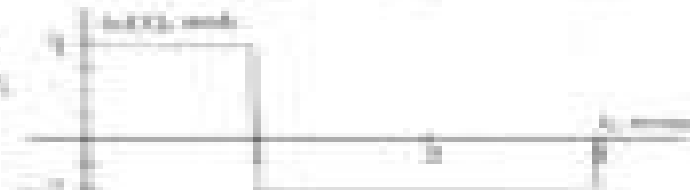
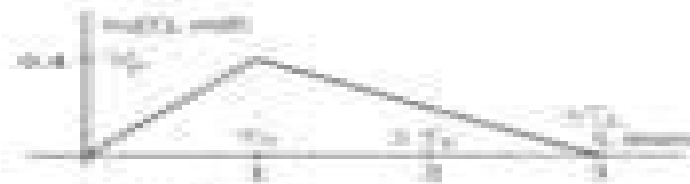
$$T_0 = 1 \text{ ms} \Rightarrow \frac{1}{2} \cdot T_0 = \frac{1}{2} \cdot 1 \text{ ms} = 0.5 \text{ ms}$$

$$i_1(t) = \frac{1}{10 \text{ mH}} \cdot \frac{1}{2} \cdot T_0^2 + \frac{1}{10 \text{ mH}} \cdot \frac{1}{2} \cdot T_0^2 \cdot (t - T_0)$$

$$= \frac{1}{10 \text{ mH}} \cdot \frac{1}{2} \cdot T_0^2 \cdot (1 + t - T_0)$$

$$= \frac{1}{10 \text{ mH}} \cdot \frac{1}{2} \cdot T_0^2 \cdot (1 + t - T_0)$$

$$T_0 = 1 \text{ ms} \Rightarrow \frac{1}{2} \cdot T_0^2 = \frac{1}{2} \cdot 1 \text{ ms}^2 = 0.5 \text{ ms}^2$$



# Solution Manual Ulaby Circuits

**Ensheng Dong**



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