

$$2.8 \quad I_L = \frac{1}{2D-1} \cdot \frac{V}{R}$$

$$2.9 \quad \begin{aligned} L \frac{di_L}{dt} = v_L &\Rightarrow L \frac{2\Delta i_L}{DT_s} = |V_g - V| \Rightarrow \Delta i_L = \left| \frac{D-1}{2D-1} \right| \cdot \frac{DT_s}{L} \cdot V_g \\ C \frac{dv_C}{dt} = i_C &\Rightarrow C \frac{2\Delta V_C}{DT_s} = \left| I_L - \frac{V}{R} \right| \Rightarrow \Delta V_C = \frac{1-D}{(2D-1)^2} \cdot \frac{DT_s}{RC} \cdot V_g \end{aligned}$$

2.10.

$$(a) \quad i_T(t) = \begin{cases} i_{L2} & D \\ 0 & D' \end{cases} \Rightarrow \begin{array}{c} i_T \\ \uparrow \\ \text{[Pulse waveform]} \\ \downarrow \\ t \end{array}$$

(The waveform shows a pulse of width DT_s followed by a zero-current interval of width $D'T_s$.)

$$(b) \quad \begin{aligned} D: & \begin{cases} v_{L1} = V_g - v_{C1} \\ v_{L2} = v_{C1} - v_{C2} \\ i_{C1} = I_{L1} - I_{L2} \\ i_{C2} = I_{L2} - \frac{V}{R} \end{cases} & D': & \begin{cases} v_{L1} = V_g - v_{C1} \\ v_{L2} = -v_{C2} \\ i_{C1} = I_{L1} \\ i_{C2} = I_{L2} - \frac{V}{R} \end{cases} \end{aligned}$$

yields that:

$$v_{C1} = V_g; \quad v_{C2} = DV_g; \quad I_{L1} = \frac{D^2 V_g}{R}; \quad I_{L2} = \frac{DV_g}{R}.$$

(c). For capacitor voltage v_{C1} :

$$C_1 \frac{dv_{C1}}{dt} = I_{L1} \Rightarrow C_1 \frac{2\Delta V_{C1}}{(1-D)T_s} = \frac{D^2 V_g}{R} \Rightarrow \Delta V_{C1} = \frac{(1-D)D^2 V_g T_s}{2RC_1}$$

For inductor current i_{L1} :

$$L_1 \frac{di_{L1}}{dt} = v_{L1} = V_g - v_{C1}$$

$$\Rightarrow 2\Delta i_L = \frac{1}{L_1} \int \hat{v}_{C1} dt = \frac{1}{L_1} \cdot \frac{T_s}{2} \cdot \frac{\Delta V_{C1}}{2} \Rightarrow \Delta i_{L1} = \frac{D^2(1-D)V_g T_s^2}{16RL_1C_1}$$



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