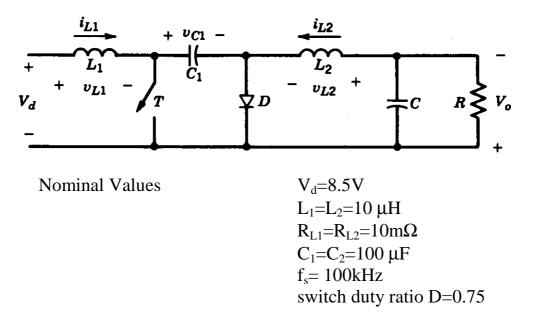
LAB 06A

Cuk Converter



- 1. In steady state, obtain the following wave forms:
- (a) v_{L1} , v_{L2} , i_{L1} , i_{L2}
- (b) v_o , i_o , i_C

Check if the V_o , I_o , I_d results agree with the analytical calculations. Repeat for D=0.25.

- 2. Obtain the peak-to-peak ripple in the output voltage and check to see if results agree with the analytical calculations.
- 3. Obtain the rms value of the current through L_2 and check to see if results agree with the analytical calculations.
- 4. Obtain the rms value of the current through L₁