

5.7 DCM mode boundary analysis of the Ćuk converter of Fig. 5.24. The capacitor voltage ripples are small.

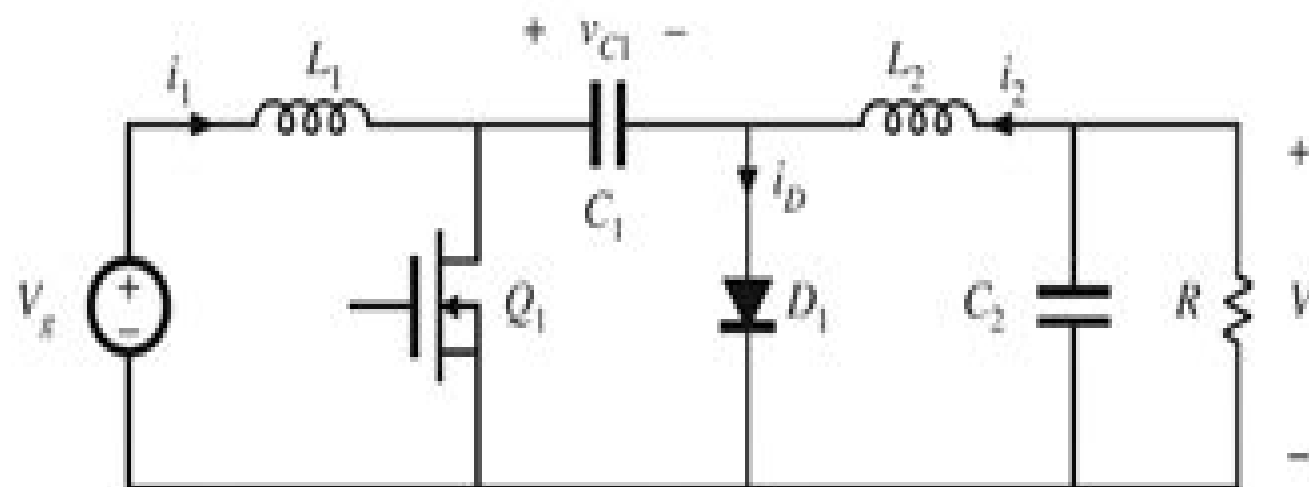


Fig. 5.24 Ćuk converter, Problems 5.7, 5.8, 5.14, and 5.15

- Sketch the diode current waveform for CCM operation. Find its peak value, in terms of the ripple magnitudes Δi_{L1} , Δi_{L2} , and the dc components I_1 and I_2 , of the two inductor currents $i_{L1}(t)$ and $i_{L2}(t)$, respectively.
- Derive an expression for the conditions under which the Ćuk converter operates in the discontinuous conduction mode. Express your result in the form $K < K_{crit}(D)$, and give formulas for K and $K_{crit}(D)$.

Electronics 3rd Edition Hambley Solution

Roger Loxton



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