

PROBLEMS: Advanced Power Electronics – Spring 2008
Assignment – May 8, 2008

Answer any FIVE of the six problems given. In all problems, assume ideal components unless noted otherwise, and state explicitly in the problem. In the plots of waveforms, label all voltage/differences, the average, instantaneous direction, phase average value or equivalent RMS value accordingly.

Problem 1 (10 points)

The following circuit is a half-bridge inverter shown in Fig. 1. Assume:

- (a) $V_{dc} = 100\text{V}$, $R = 10\ \Omega$, $L = 1\text{mH}$, $f_s = 1\text{kHz}$, $D = 0.5$. The switching frequency is well above the natural frequency.
- (b) Calculate the output voltage $v_o(t)$ and $i_o(t)$.
- (c) Sketch the following waveforms for one period: v_{sw} and i_o .

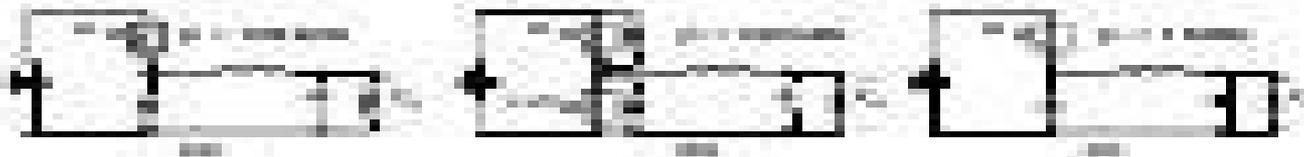


Fig. 1

Problem 2 (10 points)

Consider the circuit shown here consisting of a diode in series to a parallel combination of a multi-phase bridge inverter with a load and a free wheel diode. Fig. 2 shows a two-phase bridge inverter. Its steady state, along with the phase-shifted gate signal, is shown. Note the two diodes share the load equally.

- (a) Calculate the output voltage.
- (b) Sketch the waveforms for i_{D1} , i_{D2} , and gate G_1 , clearly showing all the components.
- (c) Describe succinctly but the operation of the i_{D1} diode in the steady state.

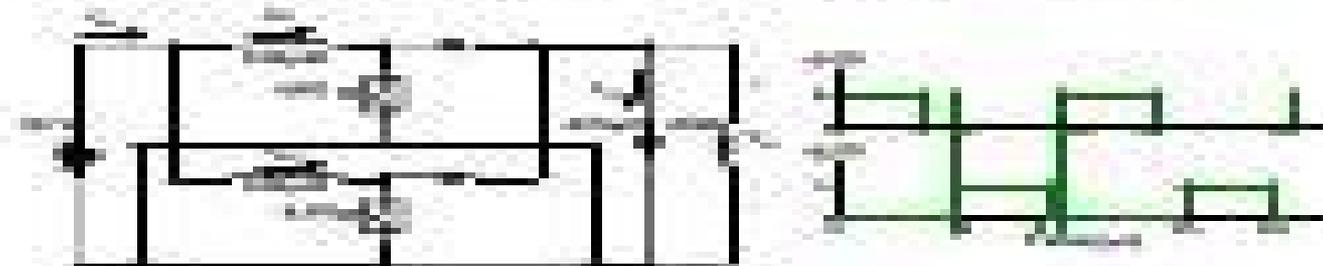


Fig. 2

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Shasha Hu



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