

EE394V Homework Assignment #5 (optional)

Due date: 12/2/2011

Elaborate some few conclusions or comments about the results. Please, also include an schematic of your model.

1) Choose a bidirectional dc-dc converter topology and simulate it both when switching from charge to discharge mode and vice versa. You are free to choose any converter topology you prefer and to size its parameters accordingly. However, be sure that your chosen parameters are realistic and practical (e.g. do not choose a 100 H inductor). Tip: for the energy storage you may want to consider a sufficiently large capacitance (which is the only component exempt from the previous sentence comment, because this capacitance may be representing some energy storage device which may not necessarily be an actual capacitor).