Power Electronics Converters and Systems
DC/AC Conversion

Homework 6

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Aspects of Assignment

- Problem 9: Consider lecture set 6, slides 33-37. Devise and implement your own variant of the method described to calculate the gains. Your method should make use of the impedance and be posed as an optimization problem. Determine the gains, pole locations, and frequency response as described in that lecture set. Everyone will have a different answer. All answers are acceptable, provided they are defendable.

Aspects of Assignment

- Problem 10: Create waveform and average value models of the PMAC generation system we described in class. Produce well documented code, and reproduce the results of lecture set 6, slides 40-42.