

ELEC 4700: Assignment 4

Part 1:

Please refer to the code pdfs for G, C, B.

Part 2:

This circuit is a low pass filter combined with an amplifier. At high frequencies this circuit should have no output.

Part 3.

Increasing C_n results in higher bandwidth, and also affects the V_{out} through over and under damping the circuit.

Part 4.

The voltage source would be current controlled instead of voltage controlled, so the stamp for this component would need to be changed to allow for an accurate model .