

ECSE597/ECSE472

Assignment #3

Questions:

1. Write the following matlab functions:

ind.m → adds an inductor to the MNA equations

vcvs.m → adds a voltage controlled voltage source to the MNA equations

vccs.m → adds a voltage controlled current source to the MNA equations

fsolve.m → performs a frequency domain analysis to obtain the frequency response.

See the attached matlab files with the same names for more precise definitions of these functions.

2. Run all Benchmark functions provided in order to test your simulator.

Deliverables:

1. A pdf file containing the results of all benchmark functions (all plots), as well as the matlab code for the functions you have written.
2. The matlab m files for ind.m, vcvs.m, vccs.m, fsolve.m