Total: ____/20

Report By: Yao Xinchen
Lab Partner:
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Section: AB2

Report Guidelines: ___/20

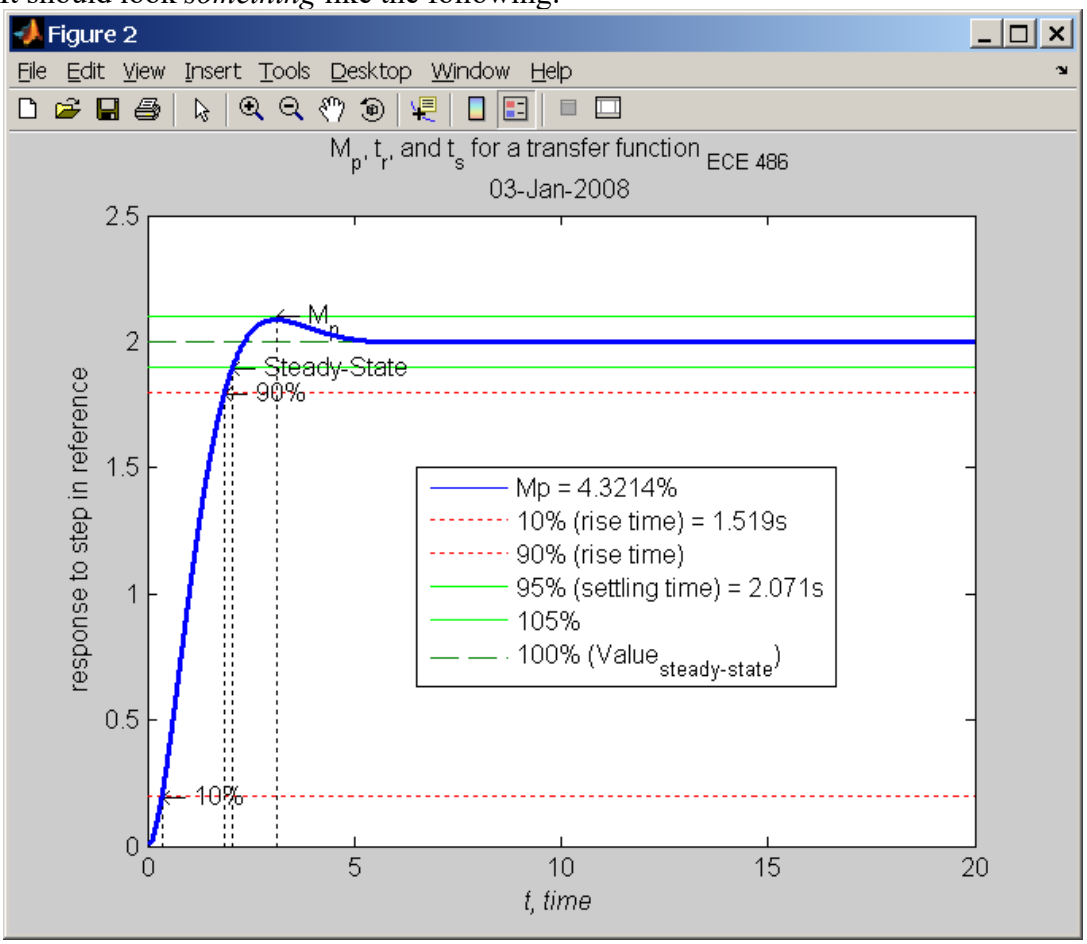
For this report you will need three files:

1.) LabReport0.m (the main file that runs the other two)
2.) StepResponseMetrics.m (a file you will edit to show M_p, t_r and t_{ss})
3.) controllerlab0.mdl (A SIMULINK model)

All three files must be saved in the same directory. You only need to edit StepResponseMetrics.m. You can run all three by typing **LabReport0** in the Matlab command window because LabReport0.m calls the other two files.

What to hand in:

Use this file as a template (put your name for the *Report By* line, your partner's name in the *lab partner* line, etc.).
You must submit a printout showing M_p, t_r and t_{ss}, as found in StepResponseMetrics.m. It should look *something* like the following:



Note: you must show M_p, t_r, t_{ss} values and must have similar titles and labels.

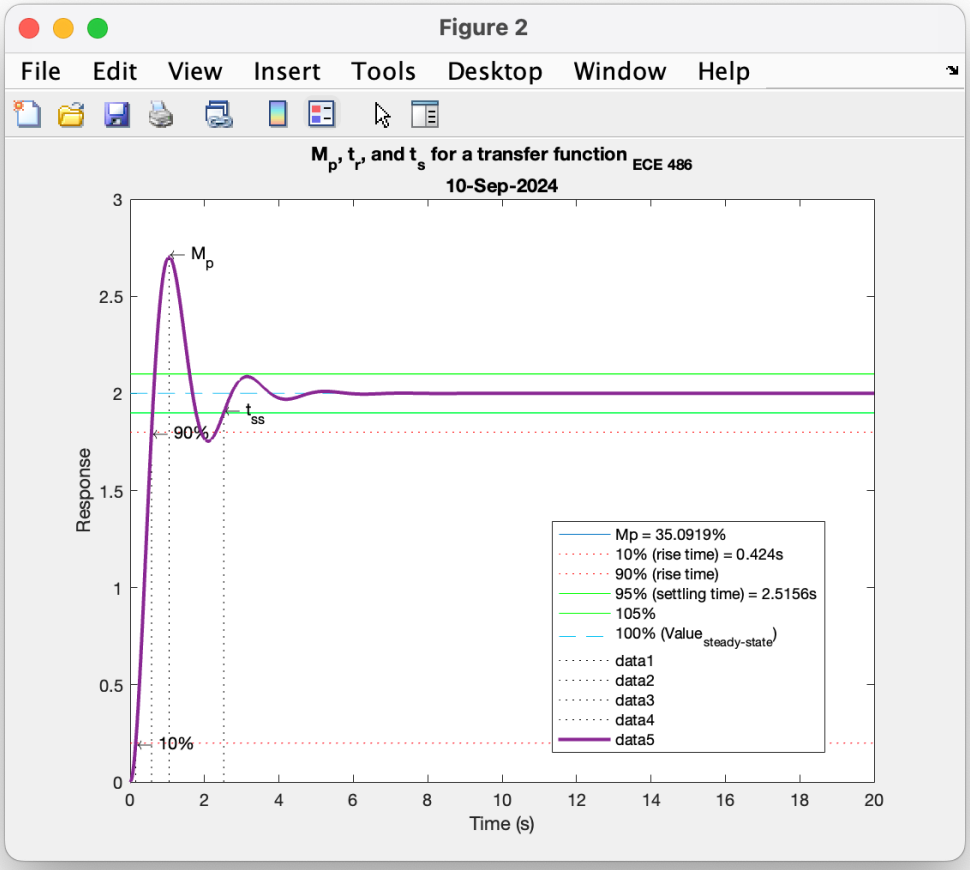


Figure 2
File Edit View Insert Tools Desktop Window Help
Mp, tr, and ts for a transfer function ECE 486
10-Sep-2024
Response
Time (s)
Mp
tss
90%
10%
Mp = 35.0919%
10% (rise time) = 0.424s
90% (rise time)
95% (settling time) = 2.5156s
105%
100% (Value steady-state)
data1
data2
data3
data4
data5