kd =

0.0734

0.1874

High-Fidelity, No Mass Sims

Trevor Burgoyne 13 Nov 2022

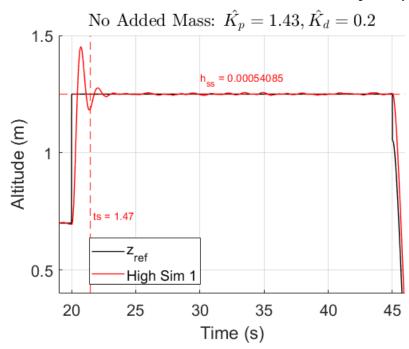
```
% Paths for data loading
ROOT_DIR = "C:/Users/Trevor/Desktop/AEM 4602W/Controls-Lab/Data/Part 2/";
PREFIX = "sim_t";
DISP_NAME = "No Added Mass";
LABEL NAME = "High Sim";
N_TESTS = 6;
N_RUNS = 1;
masses = 69*ones(1,N_TESTS)/1000; % kg
[avg_hss, var_hss, avg_kt, var_kt, kphat, kdhat, kp, kd] = make_graphs(ROOT_DIR, PREFIX, DISP_NAME, LABEL_NAME, N_TESTS, N_RUNS, masses)
avg_hss =
                                                      0.0042
   0.0005
              0.0021
                        0.0038
                                  0.0017
                                            0.0062
var_hss =
                 0
avg_kt =
   0.6815
              0.6669
                        0.6489
                                  0.6615
                                            0.6534
                                                      0.6536
var_kt =
     0
                 0
                       0
                             0
                                   0
kphat =
    1.4300
              0.9900
                                            0.5000
                                                      0.1000
                        0.8300
                                  1.6900
kdhat =
    0.2000
              0.5000
                        0.8000
                                  0.6900
                                            0.9900
                                                      0.1000
kp =
    0.5245
              0.3711
                        0.3198
                                  0.6387
                                            0.1913
                                                      0.0383
```

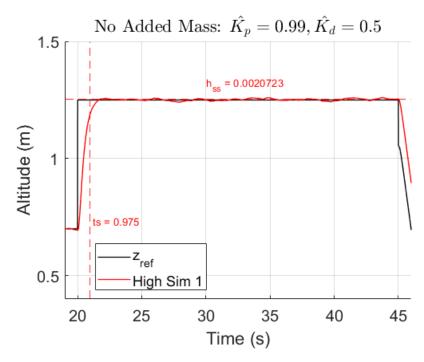
0.3082

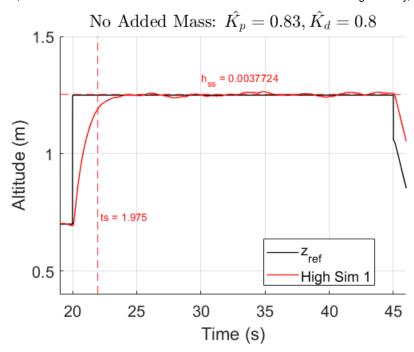
0.2608

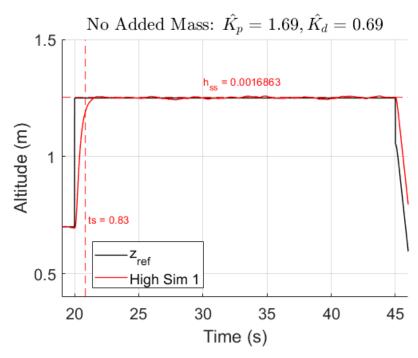
0.3788

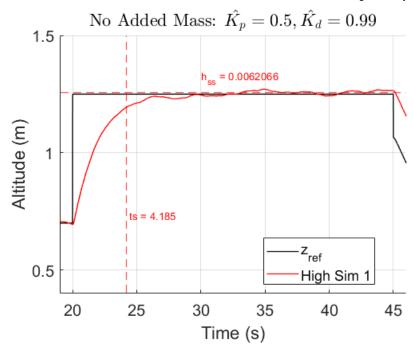
0.0383

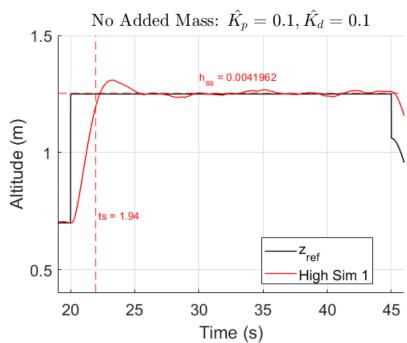












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