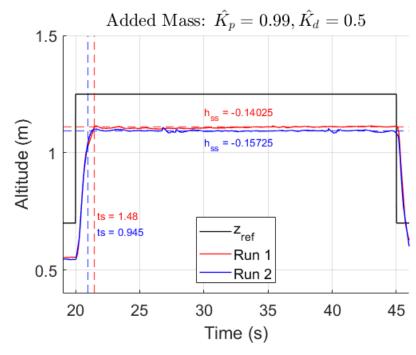
Added Mass Experiments

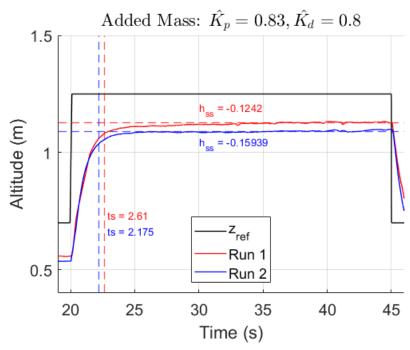
Trevor Burgoyne 13 Nov 2022

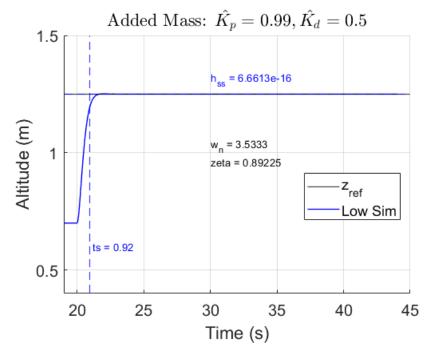
```
% Paths for data loading
ROOT_DIR = "C:/Users/Trevor/Desktop/AEM 4602W/Controls-Lab/Data/Part 3/";
PREFIX = "pjsdata_P3T";
DISP_NAME = "Added Mass";
LABEL_NAME = "Run";
N_TESTS = 2;
N_RUNS = 2;
masses = [79.3, 80.6] / 1000; % kg
[avg_hss, var_hss, avg_kt, var_kt, kphat, kdhat, kp, kd] = make_graphs(ROOT_DIR, PREFIX, DISP_NAME, LABEL_NAME, N_TESTS, N_RUNS, masses)

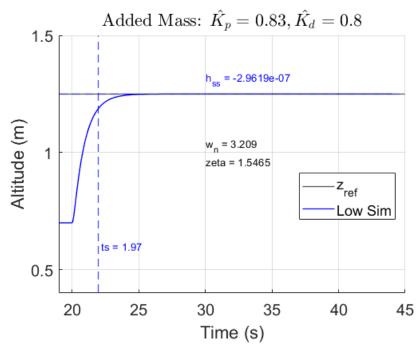
for test_n=1:N_TESTS
        [wn, zeta] = Low_Fidelity_Model(DISP_NAME, masses(test_n), avg_kt(test_n), kp(test_n), kd(test_n));
end
```

```
avg_hss =
  -0.1487
           -0.1418
var_hss =
  1.0e-03 *
   0.1446
             0.6192
avg_kt =
   0.5450
             0.5636
var_kt =
  1.0e-03 *
   0.0114
             0.1419
kphat =
   0.9900
             0.8300
kdhat =
   0.5000
             0.8000
   0.4541
             0.3682
kd =
   0.2294
             0.3549
```









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