>> main\_opt\_v20

---------- START RUNNING: 10-Jun-2023 15:26:56 ----------

---------- INPUT USERS SETTING FOR OPTIMIZATION ----------

---------- PREPROCESS ----------

---------- START OPTIMIZATION ----------

\*\* START: Find x0 with bestfval < 0.05

\* Find x0: 1 times

Best Mean Stall

Iteration f-count f(x) f(x) Iterations

0 30 0.05898 NaN 0

1 60 0.05898 0.8267 0

2 90 0.05898 0.5286 1

3 120 0.05898 0.5176 2

4 150 0.05487 0.5773 0

5 180 0.05487 0.4462 1

6 210 0.05487 0.6361 2

7 240 0.05487 0.5001 3

8 270 0.05487 0.3583 4

9 300 0.05487 0.3827 5

10 330 0.05075 0.3722 0

11 360 0.05075 0.422 1

12 390 0.05075 0.2636 2

13 420 0.03398 0.2075 0

Optimization stopped by a plot function or output function.'

\* Find x0: 442.4957 0.1567509 0.176422

\* exitflag: -1

\*\* END: Find x0 with bestfval < 0.05

\*\*\* Find x0: 450.6 seconds

\*\* START: Find x with bestfval < 0.0001

\* Find x: 1 times

Max

Iter Func-count f(x) Constraint MeshSize Method

0 1 0.0561348 0.0643 1

1 312 6.32362e-05 0 0.009772 Update multipliers

Stop requested.

\* Find x: 435.5864 0.1320779 0.192304

\* exitflag: -1

\*\* END: Find x

\*\*\* Find x: 529.5 seconds

OPT parameter: 435.5864 0.1320779 0.192304

---------- SHOW OPTIMAL RESULTS ----------

Target muscle parameter:

435.5600 0.1321 0.1923

Optimal muscle parameter:

435.5864 0.1321 0.1923

Motion 1 joint angle prediction error: 1.8e-05

Motion 1 joint speed prediction error: 7.4e-05

Motion 2 joint angle prediction error: 7e-06

Motion 2 joint speed prediction error: 5.2e-05

---------- VALIDATE OPTIMAL RESULTS ----------

Validate motion joint angle prediction error: 0.0009

Validate motion joint speed prediction error: 0.0021

---------- END RUNNING: 10-Jun-2023 15:43:23 ----------