AA 236A: Spacecraft Design Problem Set 2

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Problem 1

(a) test words

(b) A list of the passes bounded by time is below in Figure 1.

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Figure 1: Passes over WFF bounded by time

File Edit Help

2021/02/03 10:10:05

WFF Wallops Island, Virginia

Next: TECHEDSAT 10 in 05:08:45

(c) The ground tracks are below in Figure 2, TECHEDSAT-7 was not available.

Figure 2: Ground Tracks of ISS and TECHEDSAT-10 $\,$

Problem 2

-150° -120°

- (a)
- (b)
- (c)

Problem 3

All files for this problem are located here

Problem 4

- (a)
- (b)

Problem 5

The code is located here.

(a) The predicted altitude starts around 350 km (locally sinusoidaly oscillates) and decays to 300 km around 33 days and 100 km around 87 days. this can be seen below in Figure 3.

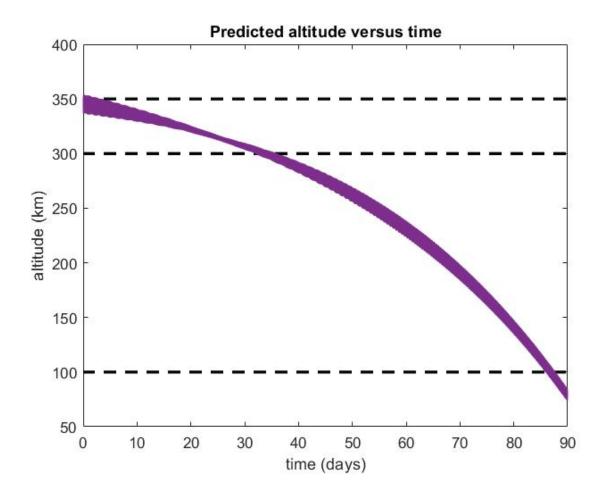


Figure 3: Altitude versus time for TECHEDSAT-10

(b) The predicted altitude starts around 350 km (locally sinusoidaly oscillates) and decays to 300 km around 17 days and 100 km around 44 days. this can be seen below in Figure 4. It would make sense that doubling the drag term will cause the satellite to come to plummet twice as fast.

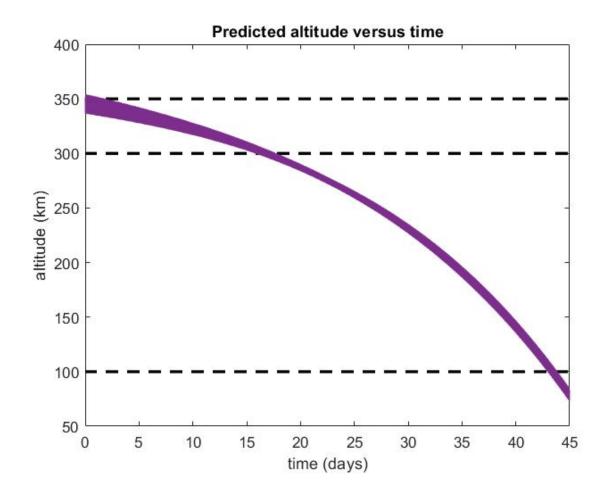


Figure 4: Altitude versus time for TECHEDSAT-10 with doubled BSTAR

(c)