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

- (a) less then 100 volts can damage a component.
- (b) The most important "tool to safeguard is the highly conductive human body. Relative Humidity can affect the amount of charge, the lower RH is the higher the charge will be.
- (c) An electromagnetic pulse (EMP) is a short burst of electromagnetic energy. Over-current is an excess of current, or amperage, in a circuit. This can be caused by an EMP.

Operation Starfish, or Starfish Prime, was a US high altitude nuclear test in 1962. The explosion caused an EMP that was far larger then expected. It knocked out about 300 satellites and caused damage in Hawaii. This also caused some trapped radiation around the Earth, which caused six or more satellites to fail as well.

Problem 3

All files for this problem are located here

Problem 4

- (a) The code is located here
- (b) As seen in Figure 3, all sensors work as expected except for the GPS sensor. I am having trouble getting it to connect but will try outside tomorrow (Feb. 4th) and get back to you. Despite the instructions, I do have the code running in a loop so I can see the sensors change as the environment changes.

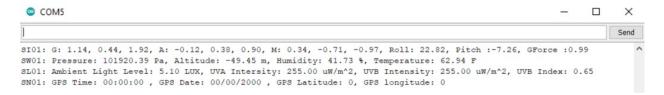


Figure 3: Serial Monitor of the Sensor Test

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 4.

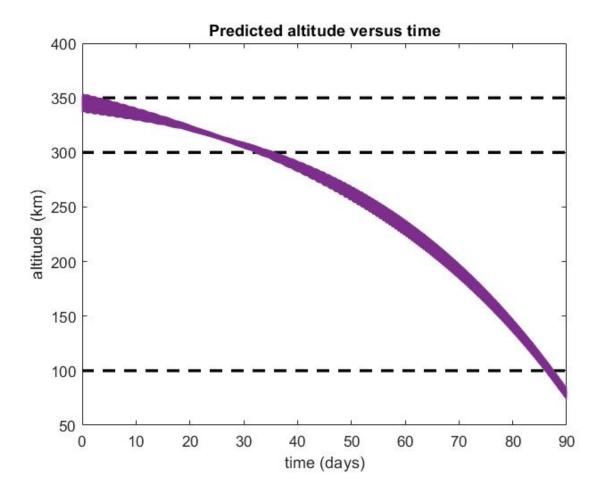


Figure 4: Altitude versus time for TECHEDSAT-10

(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 5. It would make sense that doubling the drag term will cause the satellite to come to plummet twice as fast.

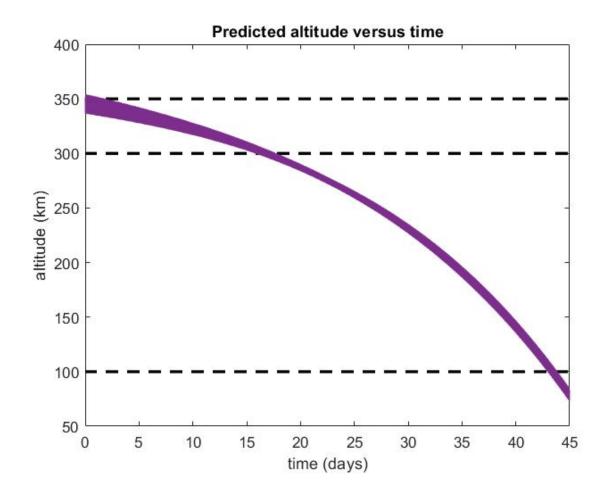


Figure 5: Altitude versus time for TECHEDSAT-10 with doubled BSTAR $\,$

(c) What is missing from this picture is the sinusoidal nature of the altitude and any type of control system or re entry system.