The Lunar Mission Launch Simulator Initial Writeup

Lou Rosas

May 17, 2024

1 History

Launching Simulators pose a unique challenge in implementation of physics and real-time monitoring of:

- 1. Current Speed
- 2. Current Altitude
- 3. Current Drag Coefficient
- 4. Current Position relative to Earth
- 5. Current Fuel Content
- 6. Current Stage
 - (a) When Staging should occur
- 7. Current End of Lauch Sequence
 - (a) When the Capsule is in stable orbit?
 - (b) When all of the Stages are completely finished?
 - (c) When the Capsule is actually in space?

All of these pose particular issues as related to accurately simulating a launch.

2 Abstract

Part of the entire