Methodology

Rocket flight equations

Classical rocket equation

Generating data using MATLAB

Velocity generation

References

1. <https://science.nasa.gov/learn/basics-of-space-flight/chapter3-2/>
2. Projectile motions - https://courses.lumenlearning.com/suny-osuniversityphysics/chapter/4-3-projectile-motion/#:~:text=(c)%20The%20velocity%20in%20the,to%20the%20initial%20vertical%20velocity.