

Spacecraft Assignment 1

And the Earth goes round again...

Problem Statements

1. Simulate the Earth's orbital motion around the Sun (2-body problem).
2. Add the moon to the system. Note if there is any significant change in the period of the orbit of the Earth.
3. Plot the motion of the moon and earth on an earth-centered inertial and earth-fixed F.O.R.s.
4. For a given location on the surface of Earth, find all the times of the year when the moon is visible.