Advitiy - Tether simulations

Pavan R Hebbar, Tanya Choudhary, Anuj Kuruwa

May 5, 2017

Contents

1 Introduction:

This document deals with day to day work on simulations of satellite deorbiting.

2 Setting B = 0:

May 5, 2017
Simulation was tried with magnetic field set to zero. Theta and phi results were as expected. Graph of r is yet to explain. Though the changes in r are very small ($O(10^{-8})$), it would be expected that the initial point would be an apogee or a perigee. Therefore simulation was performed again to get a graph of rdot (checkout the *debugging$_r$* branch)