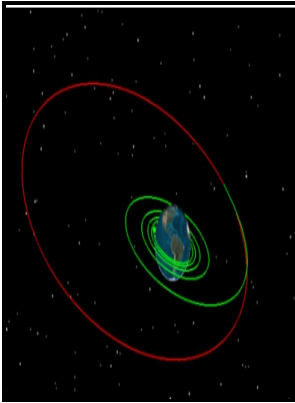


Computer program for optimum low-thrust orbit transfers

Rand Corporation - Astrogator: Spiral to GEO using an Optimal Finite Maneuver



Description: -

-
Orbital transfer (Space flight) -- Computer programs.
Artificial satellites -- Orbits -- Computer programs. Computer
program for optimum low-thrust orbit transfers
-
Research memorandum (Rand Corporation) -- RM-4704-PR..
Memorandum -- RM-4704-PR Computer program for optimum low-
thrust orbit transfers
Notes: Bibliography: p. 108.
This edition was published in 1965



Filesize: 60.65 MB

Tags: #Astrogator: #Spiral #to #GEO #using #an #Optimal #Finite #Maneuver

The Myth of Low

Define the Engine Using the previously created engine model, you can define the magnitude and nature of the propulsion.

AUTONOMOUS CONTROL SYSTEM FOR LOW

Next you want to limit what values our optimal finite calculation can use.

14.2: The Edelbaum Low

Define the Final Boundary Option Next you will define the Final Boundary. Project Prometheus is just what NASA says it is: a way to send big science payloads to the outer planets and Kuiper Belt and have lots of electric power to run them when they get there.

On optimization of many

This will keep your values between reasonable conditions. The problem with NEP is not with the Nuclear part, but with the Electric part. On the other hand, to move the spacecraft to a lower orbit, we decrease the semi-major axis and the energy by decreasing the velocity.

AUTONOMOUS CONTROL SYSTEM FOR LOW

So the vision of huge ion-drive spaceships majestically cruising from Earth to Mars is another of those neat ideas from the 1950s that turns out to be unworkable in the real Solar System that we started to discover with Explorer I. The control variable being the yaw angle, the necessary condition for a stationary solution is obtained by simply setting the partial derivative of the integrand of the variational integral with respect to the control to zero.

The Myth of Low

The first is to compute the Finite Maneuver and use the solver time intensive.

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