Report Layout

Mathematical Model

- First Approach

- - Rocket Equations used

Ideal approach for Formulation:

- Propellent Budget

- Gravitational Potential

- Hohmann Transfers

Non Ideal Factors:

- Gravity Drag

- Air Resistance

- Additional minimum increase in elevation

Report Layout

- Introduction to Problem

- Problem Definition

- - MAX Q

- - Payload Capacity

- - What is payload ?

- - What is Wet Mass ?

- - What is Dry Mass ?

- - Dynamic Pressure

- - - What is dynamic Pressure ?

- - Maximum Acceleration

- - Orbital Acceleration

- - Why Orbital Acceleration Positive ?

- Ideal Approach for Formulation

- - Propellent Budget

- - Gravitational Potential

- - Hohmann Transfers

- - Non Ideal Factors:

- - - Gravity Drag

- - - Air Resistance

- - - Additional minimum increase in elevation

- Objective (Failed Approach) -

- - Working Bottlenecks

- - Wet-mass(Rocket Engines) & Insufficent Data

- Objective (First Approach) - Selection Metrics\*\*

A. Selection Criteria I

B. Selection Criteria II

- Objective (Third Approach) -

(Paper)

- Results & Discussion

- Conclusion