

TRAJECTORIES TO THE MOON

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Optimal Two-Impulse Trajectories with Moderate Flight Time for Earth-Moon Missions

A trans-lunar injection (TLI) is a propulsive maneuver used to set a spacecraft on a trajectory that will cause it to arrive at the Moon. Typical lunar transfer.

The Apollo Moon Landings: How They Worked (Infographic)

A SURVEY ON TRAJECTORIES TO THE MOON. Antonio Fernando Bertachini de Almeida Prado. Instituto Nacional de Pesquisas Espaciais - INPE. São José.

Trans-lunar injection - Wikipedia

If nothing else were done, Apollo 11 would pass behind the moon and then fall back to Earth (a "free return" trajectory). Instead, firing a rocket.

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The results show that the flight time obtained for the optimal trajectories about 4. According to the results presented in Tables 2 and 3 we note, regardless the dynamical model used in the analysis, that 1 lunar missions with clockwise LMO arrival spend more fuel than lunar missions with counterclockwise LMO arrival; 2 the flight time is nearly the same for all lunar missions with clockwise LMO arrival, independently on the final altitude of LMO. Results in Tables Trajectories To The Moon and 3 show good agreement.

In all cases, the trajectories are feasible, that is, the spacecraft does not. For given initial conditions, corresponding to a counterclockwise circular low Earth orbit at Space Station altitude, the optimization problem has been solved for several final conditions, corresponding to either a clockwise or counterclockwise circular low Moon orbit at different altitudes. Once in orbit, the rockets can be turned off. The cylindrical service module SM contained propellant tanks, the main rock models describing the motion of the spacecraft exhibit very complex dynamics that are used to design new Earth-to-Moon trajectories [5 - 10].