

عنوان مقاله:

ANALYSIS OF THE PREDICTED ERRORS IN GUIDANCE LAWS

محل انتشار:

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خلاصه مقاله:

In this paper, equations predicted errors for final position and velocity vectors are derived by adding a model for the vehicle thrust/ drag approximation in the presence of gravity and autopilot dynamics. The guidance / control system is assumed as a linear time-variant arbitrary- order. The presented equations are applicable to both endoatmospheric and exoatmospheric missions and are developed for two classes of system. First, for systems in which the acceleration commands is truncated at a specified time. Second , for systems in which the corrective maneuvers are cut off at a specified time, regardless of the acceleration commands. The gravitational acceleration is modeled as a given vectorial function of time. Furthermore . the method is modified for an endoatmospheric / exoatmospheric .interceptor having cut-off capability to compensate cut-off delay

کلمات کلیدی:

Predicted errors - Zero - effort miss , Optimal guidance

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