

A study on Propulsion Fuel consumption rate for orbit maintenance of LEO

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For low Earth orbit, the atmosphere causes orbit altitude to decrease. If this decrease is not corrected by the satellite propulsive unit, the orbit decays continuously until it reaches the dense atmosphere and satellite life ends. If active orbit maintenance is made by satellite propulsive unit then fuel consumption is necessary, which must be considered in the satellite design. Especially interesting is the method for evaluating the fuel consumption rate for maintenance of elliptical orbit developed in this paper.