

Analisis karakteristik orbit melalui pemodelan dan simulasi orbit satelit LAPAN -A2 dan LAPAN-ORARI

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Abstrak

LAPAN is currently developing LAPAN - 2 AND LAPAN-ORARI satellites which are planned to be launched in 2011. Both satellites will be placed in equatorial orbit at 650 km height above the earth surface with 8 degrees inclination. The analytical result by using the simulation model shows that by implementing 8 degree inclination, several LAPAN ground stations which are located in the equatorial line such as Bukittinggi and Biak ground station have longer duration to access the satellite compared with those which are located quite far from equator line such as Rumpin ground station. Besides, by placing both satellites in the 8 degree inclination, the LAPAN's ground station will be able to access the satellites between 10 until 14 times per day. The height of the access ability from the ground station to the satellite will provide big advantages because the satellite can be used to monitor the earth surface more often.