

Pengujian modul hamtronics untuk sistem transmitter dan receiver payload komunikasi nanosatelit iinusat = Testing of hamtronics module for transmitter and receiver system from iinusat payload communication nanosatellite

Syifa Aulia, author

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Abstrak

Skripsi ini membahas tentang pengujian sistem transmitter dan receiver suatu payload komunikasi nanosatelit yang dibuat melalui program Inspire (Indonesian Nanosatellite Platform Initiative for Research and Education) dan diberi nama IiNUSAT (Indonesian Inter University Satellite). Sistem payload komunikasi pada IiNUSAT yang akan diuji memiliki frekuensi uplink 145,9 MHz untuk receiver serta frekuensi downlink 435,915 MHz untuk transmitter. Sistem payload yang diuji dalam skripsi ini menggunakan modul-modul dari hamtronics. Modul-modul tersebut terdiri dari TA451, R100, serta MO96. Hasil uji alat tersebut menunjukkan bahwa frekuensi TA451 berada pada 436.89661 MHz serta frekuensi R100 berada pada 145.988 MHz.

<hr>The focus of this thesis is testing of transmitter and receiver system of payload communication in nanosatellite which is named IiNUSAT (Indonesian Inter University Satellite) and made through Inspire (Indonesian Nanosatellite Platform Initiative for Research and Education) program. Payload communication system that will be tested has 145.9 MHz uplink frequency for receiver and 435.915 downlink frequency for transmitter. In this thesis, hamtronics module was used as a payload system for the nanosatellite. The result show that the frequency for TA451 is 436.89661 MHz and frequency for R100 is 145.988 MHz.