

ABSTRACT

Recent rapid development of science and technology, demanded a presence of a learning tool that can support a learning process. In this case is the making of a learning tool for link budget section of satellite communication system subject. The learning tool are hoped to assist student in their learning process.

In this learning tool, a link satellite geostasioner C band analysis is done based on the parameter that we inputed. Satellite link analysis starts from earth station transmitter to satellite, then from satellite to hub, then from hub to satellite and from satellite to eart station receiver.

The purpose of link satellite geostasioner C band planning is to get $C/N_{\text{planning}} \geq C/N_{\text{standard}}$, $E_b/N_{\text{planning}} \geq E_b/N_{\text{standard}}$ and receiving power planning \geq receiving power standard. If the result didn't match the standard then reconfiguration is done