

## **ABSTRACT**

*LEO satellite are satellites that are in orbit with an altitude of 500 to 2000 km above the earth's surface. The advantages of LEO satellites include low propagation delay, small path loss, the largest altitude areas are at the north and south poles, as well as control at small power earth stations. Considering Indonesia's geography, the distribution of telecommunications needs must reach all corners of the Archipelago. The existence of LEO type telecommunication satellite continues to complement land and sea fiber optic broadband networks. With the technological innovations that LEO satellite now have, such as those of Starlink, condition in Indonesia still need a broadband network in the form of cable. Meanwhile, internet services using LEO satellites will reach areas that have not been covered by broadband. For this reason, an evaluation of how the coverage of LEO satellites for Indonesia works and a link budget simulation using STK software accompanied by manual calculations, requiring as many as 96 satellites, LEO satellites can reach all of Indonesia.*

**Keywords:** *Ssatellite LEO, Indonesia geography,*