

Analysis of Pointing Error on Satellite Link using GNU Radio

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Abstract:

Satellite technology plays an important role in the global communication system. A significant amount of cost and resources are dedicated for tracking and telemetry of satellite, so that no compromise is made on pointing accuracy. This paper analyses, how the antenna misalignment error affects the received power and in turn Bit Error Rate (BER). For simulation we used a Linux based open software development toolkit called GNU Radio.