**P. Sai Teja**

**SER analysis of 2\*1 MIMO system using SSK modulation:**

Matlab Code:



**Results:**

Chart, line chart

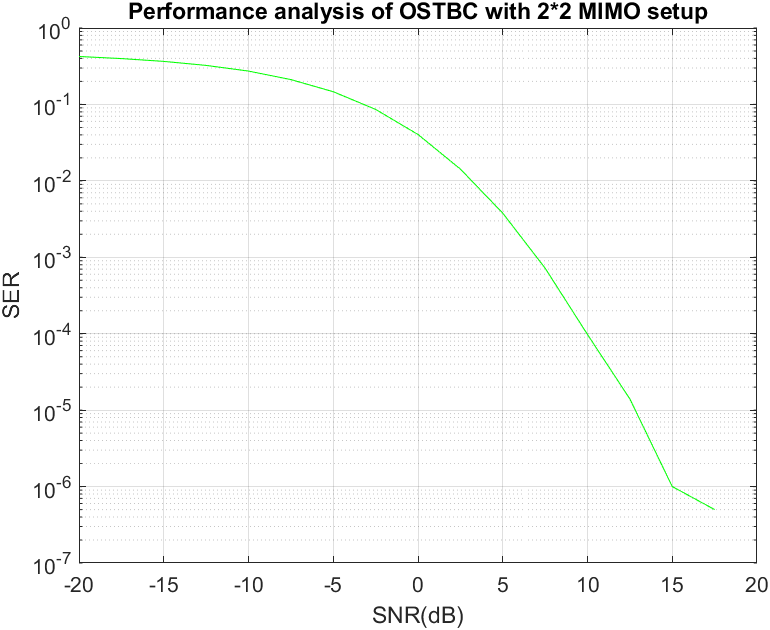
Description automatically generated

**SER analysis of 2\*2 MIMO system using OSTB code**

Matlab Code:



Results:



**SER analysis of 4\*4 MIMO system using OSTB code**

The OSTBC used for the analysis is shown below.

Matlab Code:

Results:

Chart

Description automatically generated

**Observations:**

If we observe the plots of SSK modulation for 2\*1 MIMO setup and Alamouti codes for 2\*2 and 4\*4 MIMO setup we observe that SER goes to zero after a certain SNR.