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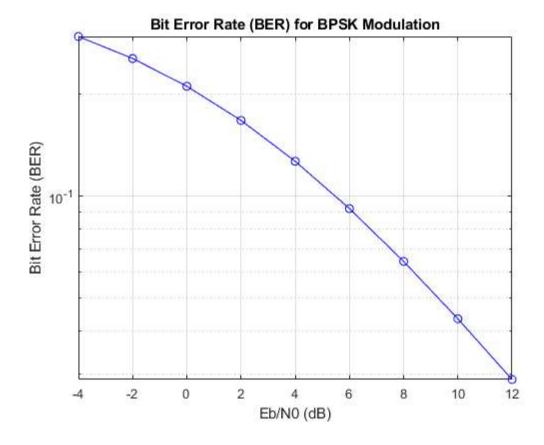
```
clc;
clear;
close all;
```

## Code

```
EbN0dB = -4:2:12; % SNR in dB
EbN0 = 10.^(EbN0dB/10); % SNR in linear scale
SNR = EbN0; % SNR is same as Eb/N0 for BPSK modulation using Q-function
BER = 0.5*(1 - sqrt(SNR./(2+SNR)));
```

## **Plotting**

```
semilogy(EbN0dB, BER, 'b-o');
grid on;
xlabel('Eb/N0 (dB)');
ylabel('Bit Error Rate (BER)');
title('Bit Error Rate (BER) for BPSK Modulation');
```



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