$$SNR = 10 \log_{10} \frac{Eb}{No}$$

$$\Rightarrow \frac{SNR}{10} = \log_{10} \frac{Eb}{No} \Rightarrow 10^{\frac{SNR}{10}} = \frac{Eb}{No}$$

$$No = Eb \cdot 10^{-\frac{SNR}{10}}$$

$$\sum a_i + n_o$$