

レポート課題

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A standard voice-grade telephone channel may be crudely modeled as an ideal band-limited AWGN channel with $W \approx 3500$ Hz and $\text{SNR} \approx 37$ dB.

1. Show the Shannon limit on spectral efficiency and bit rate of the channel.
2. Compare the Shannon limit on bit rate with transmission rates of some commercialized modems.