

(c) The jammer should transmit  $-x(t)$  to completely cancel off the signal.

$$\bar{S} = 10\text{mW}$$

$$N_0 = .001 \text{ } \mu\text{W/Hz}$$

$$B = 10 \text{ MHz}$$

Now we compute the SNR's as:

$$\gamma_j = \frac{|H_j|^2 \bar{S}}{N_0 B}$$

$$\text{This gives: } \gamma_1 = \frac{|1|^2 10^{-2}}{0.001 \times 10^{-6} 10 \times 10^6} = 1, \gamma_2 = .25, \gamma_3 = 4, \gamma_4 = 0.0625$$

To compute  $\gamma_0$  we use the power constraint as:

$$\sum_j \left( \frac{1}{\gamma_0} - \frac{1}{\gamma_j} \right)_+ = 1$$

First assume that  $\gamma_0 < 0.0625$ , then we have

$$\begin{aligned} \frac{4}{\gamma_0} &= 1 + \left( \frac{1}{1} + \frac{1}{.25} + \frac{1}{4} + \frac{1}{.0625} \right) \\ \Rightarrow \gamma_0 &= .1798 > 0.0625 \end{aligned}$$

So, our assumption was wrong. Now we assume that  $0.0625 < \gamma_0 < .25$ , then

$$\begin{aligned} \frac{3}{\gamma_0} &= 1 + \left( \frac{1}{1} + \frac{1}{.25} + \frac{1}{4} \right) \\ \Rightarrow \gamma_0 &= .48 > 0.25 \end{aligned}$$

So, our assumption was wrong again. Next we assume that  $0.25 < \gamma_0 < 1$ , then

$$\begin{aligned} \frac{2}{\gamma_0} &= 1 + \left( \frac{1}{1} + \frac{1}{4} \right) \\ \Rightarrow \gamma_0 &= .8889 < 1 \end{aligned}$$

This time our assumption was right. So we get that only two sub-bands each of bandwidth 10 MHz are used for transmission and the remaining two with lesser SNR's are left unused.

Now, we can find capacity as:

$$C = \sum_{j: \gamma_j \geq \gamma_0} B \log_2 \left( \frac{\gamma_j}{\gamma_0} \right)$$

This gives us,  $C = 23.4 \text{ Mbps}$ .

9. Suppose transmit power is  $P_t$ , interference power is  $P_{int}$  and noise power is  $P_{noise}$ .

In the first strategy  $C/B = \log_2 \left( 1 + \frac{P_t}{P_{int} + P_{noise}} \right)$

In the second strategy  $C/B = \log_2 \left( 1 + \frac{P_t - P_{int}}{P_{noise}} \right)$

Assuming that the transmitter transmits  $-x[k]$  added to its message always, power remaining for actual messages is  $P_t - P_{int}$

The first or second strategy may be better depending on

$$\frac{P_t}{P_{int} + P_{noise}} \gtrless \frac{P_t - P_{int}}{P_{noise}} \Rightarrow P_t - P_{int} - P_{noise} \gtrless 0$$

$P_t$  is generally greater than  $P_{int} + P_{noise}$ , and so strategy 2 is usually better.

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