

where  $\text{SNR} = 2\alpha^2/N_0$  is the signal to noise ratio.

For 4-PAM we can find the conditional error probability conditioned on  $\mathbf{h}$  using the result of question 4.b) of homework 2 (which was derived for binary antipodal signaling but can easily be extended for 4-PAM) and scaling appropriately by  $b$ :

$$P_{e|\mathbf{h}} = \frac{3}{2}Q\left(\sqrt{\frac{2b^2\|\mathbf{h}\|^2}{N_0}}\right)$$

Taking expectation over  $\mathbf{h}$  and bounding as before we get:

$$P_e \leq \frac{3}{2} \left( \frac{1}{1 + b^2/N_0} \right)^L = \frac{3}{2} \left( 1 + \frac{\text{SNR}}{5} \right)^{-L}$$

Therefore we get in both cases the same diversity gain, but the SNR performance is degraded by 4dB in the 4-PAM case.

3. Let  $\mathcal{A} = \{a(1+j), a(1-j), a(-1+j), a(-1-j)\}$ ,  $\mathcal{B} = \{x \in \mathbb{C}^2 : x_1 \in \mathcal{A}, x_2 \in \mathcal{A}\}$ . Then the transmitted symbols are in  $\mathcal{D} = \{\mathbf{U}x : x \in \mathcal{B}\}$ , for some fixed unitary matrix  $\mathbf{U} \in \mathbb{C}^{2 \times 2}$ . Let  $\mathbf{x} = [x[1], x[2]]^T$  be one of such symbols. Then the received signal is

$$y[\ell] = h[\ell]x[\ell] + z[\ell], \ell = 1, 2$$

from which we can extract the sufficient statistics:

$$r[\ell] = \frac{h[\ell]^*}{|h[\ell]|} y[\ell] = |h[\ell]|x[\ell] + \tilde{z}[\ell], \ell = 1, 2$$

where  $\tilde{\mathbf{z}} = \mathbf{r} - \mathbf{z}$ . Let  $v[\ell] = |h[\ell]|x[\ell]$  for  $\ell = 1, 2$  be the modified symbol as seen at the receiver.

We are interested in the pairwise error probability, that is the probability of detecting a symbol  $\mathbf{x}_2$  when the transmitted symbol is  $\mathbf{x}_1$ . The pairwise error probability conditioned on the channel realization  $\mathbf{h}$  depends only on  $\|\mathbf{v}_1 - \mathbf{v}_2\|^2$  through the expression:

$$P_{(\mathbf{x}_1 \rightarrow \mathbf{x}_2)|\mathbf{h}} = Q\left(\sqrt{\frac{\|\mathbf{v}_2 - \mathbf{v}_1\|^2}{2N_0}}\right)$$

which can be rewritten and upper bounded as:

$$P_{(\mathbf{x}_1 \rightarrow \mathbf{x}_2)|\mathbf{h}} = Q\left[\sqrt{\frac{|h[1]|^2|x_2[1] - x_1[1]|^2 + |h[2]|^2|x_2[2] - x_1[2]|^2}{2N_0}}\right]$$

# Tse Wireless Solution Manual

**DJ Losen**



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