Now assume only the best 3 channel states are used

$$\frac{0.9}{\gamma_0} = 1 + \sum_{i=1}^{3} \frac{1}{\gamma_i} p_i \Rightarrow \gamma_0 = 0.6742 < 1 \quad \text{...ok!}$$

$$\frac{S(\gamma)}{S} = \begin{cases} 1.3832 & \gamma = \gamma_1 = 10 \\ 1.1670 & \gamma = \gamma_2 = 3.1623 \\ 0.4832 & \gamma = \gamma_3 = 1 \\ 0 & \gamma = \gamma_4 = 0.1 \end{cases}$$

$$\frac{C/B}{S} = 2.3389bns/Hz$$

- (b) $\sigma = 0.7491$ $C/B = \log_2(1 + \sigma) = 0.8066bps/Hz$
- (c) $(\frac{C}{D})_{max} = 2.1510bps/Hz$ obtained by using the best 2 channel states. With $p_{out} = 0.1 + 0.2 = 0.3$
- 7. (a) Maximize capacity given by

$$C = \max_{S(\gamma) \in f} \int_{S(\gamma)p(\gamma)d\gamma = S} \int_{\gamma} B \log \left(1 + \frac{S(\gamma)\gamma}{S}\right) p(\gamma) d\gamma.$$

Construct the Lagrangian function

$$\mathcal{L} = \int_{\gamma} B \log \left(1 + \frac{S(\gamma) \gamma}{\overline{S}} \right) p(\gamma) d\gamma - \lambda \int \frac{S(\gamma)}{\overline{S}} p(\gamma) d\gamma$$

Taking derivative with respect to $S(\gamma)$, (refer to discussion section notes) and setting it to zero, we obtain,

$$\frac{S(\gamma)}{\overline{S}} = \left\{ \begin{array}{ll} \frac{1}{\gamma_0} - \frac{1}{\gamma} & \gamma \ge \gamma_0 \\ 0 & \gamma < \gamma_0 \end{array} \right.$$

Now, the threshold value must satisfy

$$\int_{\gamma_0}^{\infty} \left(\frac{1}{\gamma_0} - \frac{1}{\gamma}\right) p(\gamma) d\gamma = 1$$

Evaluating this with $p(\gamma) = \frac{1}{10}e^{-\gamma/10}$, we have

$$1 = \frac{1}{10\gamma_0} \int_{\gamma_0}^{\infty} e^{-\gamma/10} d\gamma - \frac{1}{10} \int_{\gamma_0}^{\infty} \frac{e^{-\gamma/10}}{\gamma} d\gamma \qquad (1)$$

$$= \frac{1}{\gamma_0}e^{-\gamma_0/10} - \frac{1}{10}\int_{\frac{\gamma_0}{10}}^{\infty} \frac{e^{-\gamma}}{\gamma}d\gamma$$
 (2)

$$= \frac{1}{\gamma_0}e^{-\gamma_0/10} - \frac{1}{10}EXPINT(\gamma_0/10)$$
 (3)

where EXPINT is as defined in matlab. This gives $\gamma_0 = 0.7676$. The power adaptation becomes

$$\frac{S(\gamma)}{\overline{S}} = \left\{ \begin{array}{ll} \frac{1}{0.7676} - \frac{1}{\gamma} & \gamma \geq 0.7676 \\ 0 & \gamma < 0.7676 \end{array} \right.$$

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