

Now assume only the best 3 channel states are used

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

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

$$C/B = 2.3389\text{bps/Hz}$$

(b) $\sigma = 0.7491$

$$C/B = \log_2(1 + \sigma) = 0.8066\text{bps/Hz}$$

(c) $\left(\frac{C}{B}\right)_{\max} = 2.1510\text{bps/Hz}$ obtained by using the best 2 channel states.
With $p_{\text{out}} = 0.1 + 0.2 = 0.3$

7. (a) Maximize capacity given by

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

Construct the Lagrangian function

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

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

$$\frac{S(\gamma)}{S} = \begin{cases} \frac{1}{\gamma_0} - \frac{1}{\gamma} & \gamma \geq \gamma_0 \\ 0 & \gamma < \gamma_0 \end{cases}$$

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

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

$$= \frac{1}{\gamma_0} e^{-\gamma_0/10} - \frac{1}{10} \int_{\frac{\gamma_0}{10}}^{\infty} \frac{e^{-x}}{x} dx \quad (2)$$

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

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

$$\frac{S(\gamma)}{S} = \begin{cases} 0.7676 - \frac{1}{\gamma} & \gamma \geq 0.7676 \\ 0 & \gamma < 0.7676 \end{cases}$$

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Table of Contents Wireless Communication Goldsmith Problem Solution Manual

1. Understanding the eBook Wireless Communication Goldsmith Problem Solution Manual
 - The Rise of Digital Reading Wireless Communication Goldsmith Problem Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Wireless Communication Goldsmith Problem Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wireless Communication Goldsmith Problem Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wireless Communication Goldsmith Problem Solution Manual
 - Personalized Recommendations
 - Wireless Communication Goldsmith Problem Solution Manual User Reviews and Ratings
 - Wireless Communication Goldsmith Problem Solution Manual and Bestseller Lists
5. Accessing Wireless Communication Goldsmith Problem Solution Manual Free and Paid eBooks
 - Wireless Communication Goldsmith Problem Solution Manual Public Domain eBooks
 - Wireless Communication Goldsmith Problem Solution Manual eBook Subscription Services
 - Wireless Communication Goldsmith Problem Solution Manual Budget-Friendly Options

6. Navigating Wireless Communication Goldsmith Problem Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Wireless Communication Goldsmith Problem Solution Manual Compatibility with Devices
 - Wireless Communication Goldsmith Problem Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wireless Communication Goldsmith Problem Solution Manual
 - Highlighting and Note-Taking Wireless Communication Goldsmith Problem Solution Manual
 - Interactive Elements Wireless Communication Goldsmith Problem Solution Manual
8. Staying Engaged with Wireless Communication Goldsmith Problem Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wireless Communication Goldsmith Problem Solution Manual
9. Balancing eBooks and Physical Books Wireless Communication Goldsmith Problem Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wireless Communication Goldsmith Problem Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Wireless Communication Goldsmith Problem Solution Manual
 - Setting Reading Goals Wireless Communication Goldsmith Problem Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wireless Communication Goldsmith Problem Solution Manual
 - Fact-Checking eBook Content of Wireless Communication Goldsmith Problem Solution Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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