

with equality if and only if $\mathbf{x} = \alpha \mathbf{h}$ for some constant scalar α . Hence, the optimal choice is

$$\mathbf{x} = \frac{P\mathbf{h}}{\|\mathbf{h}\|^2},$$

which is exactly the transmit beam-forming strategy.

EXERCISE 5.12.

EXERCISE 5.13. 1. Let $\mathbf{1} = [1, 1, \dots, 1]^T \in \mathcal{R}^L$. Then the channel equation is:

$$\mathbf{y} = \mathbf{1}x + \mathbf{z} \quad (5.7)$$

where $\mathbf{z} \sim \mathcal{CN}(0, N_0 \mathbf{I}_L)$ and x must satisfy the power constraint $E[x] \leq P$.

We note that we can project the received signal onto the direction of $\mathbf{1}$ obtaining the sufficient statistic:

$$r = \frac{\mathbf{1}^*}{\sqrt{L}} \mathbf{y} = \sqrt{L}x + \tilde{z} \quad (5.8)$$

where $\tilde{z} \sim \mathcal{CN}(0, N_0)$. Defining $\tilde{x} = \sqrt{L}x$ we see that we have an AWGN channel with power constraint LP and noise variance N_0 . Therefore $C = \log \left(1 + \frac{LP}{N_0} \right)$. We see that there is a power gain of L with respect to the single receive antenna system.

2. Let $\mathbf{h} = [h_1, h_2, \dots, h_L]^T \in \mathcal{C}^L$. Then the channel equation is:

$$\mathbf{y} = \mathbf{h}x + \mathbf{z} \quad (5.9)$$

where $\mathbf{z} \sim \mathcal{CN}(0, N_0 \mathbf{I}_L)$, $\mathbf{h}$ is known at the receiver and x must satisfy the power constraint $E[x] \leq P$.

Since the receiver knows the channel, it can project the received signal onto the direction of $\mathbf{h}$ obtaining the sufficient statistic:

$$r = \frac{\mathbf{h}^*}{\|\mathbf{h}\|} \mathbf{y} = \|\mathbf{h}\|x + \tilde{z} \quad (5.10)$$

where $\tilde{z} \sim \mathcal{CN}(0, N_0)$. Then the problem reduces to computing the capacity of a scalar fading channel, with fading coefficient given by $\|\mathbf{h}\|$. It follows that:

$$C = E \left[\log \left(1 + \frac{\|\mathbf{h}\|^2 P}{N_0} \right) \right] = E \left[\log \left(1 + \frac{LP \|\mathbf{h}\|^2}{N_0 L} \right) \right] \quad (5.11)$$

In contrast, the single receive antenna system has a capacity $C = E \left[\log \left(1 + \frac{LP}{N_0} \right) \right]$. The capacity is increased by having multiple receive antennas for two reasons:

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Table of Contents Tse Wireless Solution Manual

1. Understanding the eBook Tse Wireless Solution Manual
 - The Rise of Digital Reading Tse Wireless Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Tse Wireless 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 Tse Wireless Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tse Wireless Solution Manual
 - Personalized Recommendations
 - Tse Wireless Solution Manual User Reviews and Ratings
 - Tse Wireless Solution Manual and Bestseller Lists

5. Accessing Tse Wireless Solution Manual Free and Paid eBooks
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 - Tse Wireless Solution Manual Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Tse Wireless Solution Manual
 - Highlighting and Note-Taking Tse Wireless Solution Manual
 - Interactive Elements Tse Wireless Solution Manual
8. Staying Engaged with Tse Wireless Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tse Wireless Solution Manual
9. Balancing eBooks and Physical Books Tse Wireless Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tse Wireless Solution Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Tse Wireless Solution Manual
 - Setting Reading Goals Tse Wireless Solution Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Tse Wireless Solution Manual
 - Fact-Checking eBook Content of Tse Wireless 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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