

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

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

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

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

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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Mathematical Foundations for Signal Processing, Communications, and Networking Erchin Serpedin, Thomas Chen, Dinesh Rajan, 2017-12-04

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The Wireless Age, 1918 **Book Bulletin of the Chicago Public Library** Chicago Public Library, 1919

Book Bulletin Chicago Public Library, 1918 *Space Antenna Handbook* William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-05-02 This book addresses a broad range of topics on antennas for space applications First it introduces the fundamental methodologies of space antenna design modelling and analysis as well as the state of the art and anticipated future technological developments Each of the topics discussed are specialized and contextualized to the space sector Furthermore case studies are also provided to demonstrate the design and implementation of antennas in actual applications Second the authors present a detailed review of antenna designs for some popular applications such as satellite communications space borne synthetic aperture radar SAR Global Navigation Satellite Systems GNSS receivers science instruments radio astronomy small satellites and deep space applications Finally it presents the reader with a comprehensive

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Net Neutrality Christopher T. Marsden, 2010-01-18 This book is available as open access through the Bloomsbury Open Access programme and is available on www.bloomsburycollections.com Chris Marsden maneuvers through the hype articulated by Netwrok Neutrality advocates and opponents He offers a clear headed analysis of the high stakes in this debate about the Internet s future and fearlessly refutes the misinformation and misconceptions that about Professor Rob Freiden Penn State University Net Neutrality is a very heated and contested policy principle regarding access for content providers to the Internet end user and potential discrimination in that access where the end user s ISP or another ISP blocks that access in part or whole The suggestion has been that the problem can be resolved by either introducing greater competition or closely policing conditions for vertically integrated service such as VOIP However that is not the whole story and ISPs as a whole have incentives to discriminate between content for matters such as network management of spam to secure and maintain customer experience at current levels and for economic benefit from new Quality of Service standards This includes offering a priority lane on the network for premium content types such as video and voice service The author considers market developments and policy responses in Europe and the United States draws conclusions and proposes regulatory recommendations

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