

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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Wireless Communications Andrea Goldsmith, 2005-08-08 A comprehensive introduction to the basic principles design techniques and analytical tools of wireless communications *Kommunikation in Verteilten Systemen (KiVS)* Klaus Irmischer, Klaus Fähnrich, 2013-03-07 Eine Veranstaltung der Informationstechnischen Gesellschaft ITG VDE unter Beteiligung der Gesellschaft für Informatik GI Ausgerichtet von der Universität Leipzig *Applied Computation and Security Systems* Rituparna Chaki, Khalid Saeed, Sankhayan Choudhury, Nabendu Chaki, 2014-08-22 This book contains the extended version of the works that have been presented and discussed in the First International Doctoral Symposium on Applied Computation and Security Systems ACSS 2014 held during April 18-20 2014 in Kolkata India The symposium has been jointly organized by the AGH University of Science Technology Cracow Poland and University of Calcutta India The Volume I of this double volume book contains fourteen high quality book chapters in three different Parts Part 1 is on Pattern Recognition and it presents four chapters Part 2 is on Imaging and Healthcare Applications contains four more book chapters The Part 3 of this volume is on Wireless Sensor Networking and it includes as many as six chapters Volume II of the book has three Parts presenting a total of eleven chapters in it Part 4 consists of five excellent chapters on Software Engineering ranging from cloud service design to transactional memory Part 5 in Volume II is on Cryptography with two book chapters in it Part 6 of this volume is on Computer Aided Design with four chapters in it We strongly believe that the twenty five chapters in these two volumes of Applied Computation and Security Systems will be appreciated by all its readers **Wireless Sensor Networks** Ibrahim M. M. El Emary, S. Ramakrishnan, 2013-08-28 Although there are many books available on WSNs most are low level introductory books The few available for advanced readers fail to convey the breadth of knowledge required for those aiming to develop next generation solutions for WSNs Filling this void *Wireless Sensor Networks From Theory to Applications* supplies comprehensive coverage of WSNs In order to provide the wide ranging guidance required the book brings together the contributions of domain experts working in the various subfields of WSNs worldwide This edited volume examines recent advances in WSN technologies and considers the theoretical problems in WSN including issues with monitoring routing and power control It also details methodologies that can provide solutions to these problems The book's 25 chapters are divided into seven parts Data Collection Physical Layer and Interfacing Routing and Transport Protocols Energy Saving Approaches Mobile and Multimedia WSN Data Storage and Monitoring Applications The book examines applications of WSN across a range of fields including health military transportation and mining Addressing the main challenges in applying WSNs across all phases of our life it explains how WSNs can assist in community development Complete with a list of references at the end of each chapter this book is ideal for senior undergraduate and postgraduate students researchers scholars academics industrial researchers and practicing engineers working on WSNs The text assumes that readers possess a foundation in computer networks wireless communication and basic electronics **Mathematical**

Foundations for Signal Processing, Communications, and Networking Erchin Serpedin, Thomas Chen, Dinesh Rajan, 2017-12-04 Mathematical Foundations for Signal Processing Communications and Networking describes mathematical concepts and results important in the design analysis and optimization of signal processing algorithms modern communication systems and networks Helping readers master key techniques and comprehend the current research literature the book offers a comprehensive overview of methods and applications from linear algebra numerical analysis statistics probability stochastic processes and optimization From basic transforms to Monte Carlo simulation to linear programming the text covers a broad range of mathematical techniques essential to understanding the concepts and results in signal processing telecommunications and networking Along with discussing mathematical theory each self contained chapter presents examples that illustrate the use of various mathematical concepts to solve different applications Each chapter also includes a set of homework exercises and readings for additional study This text helps readers understand fundamental and advanced results as well as recent research trends in the interrelated fields of signal processing telecommunications and networking It provides all the necessary mathematical background to prepare students for more advanced courses and train specialists working in these areas

Construction and Operation of a Two-circuit Radio Receiving Equipment with Crystal Detector United States. National Bureau of Standards, 1922 **New Hampshire Register, State Yearbook and Legislative Manual** , 2004 The Wireless Age , 1922 **Solutions Manual Wireless Communications** Zhigang Rong, Theodore S Rappaport, 2009-11-01 Sources of Elementary Radio Information United States. National Bureau of Standards, 1922 **Practical Wireless Telegraphy** Elmer Eustice Bucher, 1917 **Circular** United States. National Bureau of Standards, 1921 **Network and System Security** Javier Lopez, Xinyi Huang, Ravi Sandhu, 2013-05-27 This book constitutes the proceedings of the 7th International Conference on Network and System Security NSS 2013 held in Madrid Spain in June 2013 The 41 full papers presented were carefully reviewed and selected from 176 submissions The volume also includes 7 short papers and 13 industrial track papers The paper are organized in topical sections on network security including modeling and evaluation security protocols and practice network attacks and defense and system security including malware and intrusions applications security security algorithms and systems cryptographic algorithms privacy key agreement and distribution United States , 1923 **Circular of the Bureau of Standards** , 1921 **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.), Space Antenna Handbook William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-06-25 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

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