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University of Wales Press

*An Introduction to Signal Detection and Estimation - Second Edition Chapter IV: Selected Solutions H. V. Poor
Princeton University April 26, 2005 Exercise 1:*

This course is a graduate-level introduction to detection and estimation theory, whose goal is to extract information from signals in noise. A solid background in probability and

Thus, the conditional risks are: $R_0(\delta \pi_0 \tau) = \int_0^{\tau} (y+1) dy = \frac{1}{2} \tau^2$ if $0 \leq \pi_0 \leq \tau$ and $R_1(\delta \pi_0 \tau) = \int_{\tau}^1 (y-1) dy = \frac{1}{2} (1-\tau)^2$ if $\tau < \pi_0 \leq 1$. By inspection, a minimax threshold τ^ is the solution to the equation $\tau^2 = (1-\tau)^2$.*

ECE531 Homework Assignment Number 3 Solution Make sure your reasoning and work are clear to receive full credit for each problem. 1. 4 points. Poor textbook Chapter II. Problem 2 (b). Solution: With uniform costs, the least-favorable prior will be interior to $(0,1)$, so we should use the equalizer rule.

arXiv:0907.4996v1 [cs.IT] 28 Jul 2009 COOPERATIVE JAMMING FOR WIRELESS PHYSICAL LAYER SECURITY Lun Dong[†], Zhu Han[‡], Athina P. Petropulu[†] and H. Vincent Poor [†]Electrical & Computer Engineering Department, Drexel University [‡]Electrical & Computer Engineering Department, University of Houston *School of Engineering and Applied Science, Princeton University*

Yo-Seb Jeon, Namyoon Lee, and H. Vincent Poor Abstract The use of one-bit analog-to-digital converters (ADCs) at a receiver is a power-efficient solution for future wireless systems operating with a large signal bandwidth and/or a massive number of receive radio frequency chains.

Quickest Detection, Poor and Hadjiladis. Course Description The subject of signal detection and estimation is concerned with the processing of information-bearing signals for the purpose of making inferences about the information that they contain. The purpose of this course is to provide an introduction to the fundamental theoretical principles

Dependency Theory: An Introduction 1. Vincent Ferraro, Mount Holyoke College South Hadley, MA July 1996 Background Dependency Theory developed in the late 1950s under the guidance of the Director of the United Nations Economic Commission for Latin America, Raul Prebisch. Prebisch and his colleagues

EE5130: Detection and Estimation Theory Problem Set 5 1. (Poor III.F.8) Suppose we have observations $Y_k = N_k + S_k$; $k=1, \dots, n$; where $N_k \sim N(0,1)$ and where S_k are i.i.d. random variables, independent of N_k , and each taking on the values $+1$ and -1 with equal probabilities of $1/2$.

12 ECSP REPORT · ISSUE 9 · 2003 The 2002 National Security Strategy of the United States (NSS) was a watershed document in a number of ways—including its assertion that addressing global poverty is important to U.S. national security. For example, the NSS Introduction by President George W. Bush stated that, while