

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
School of Computer and Communication Sciences

Principles of Digital Communications:
Summer Semester 2007

Assignment date: May 10, 2007
Due date: May 24, 2007

Homework 7

Problem 1. Lecture notes Problem 3 (*Matched Filter Basics*) of Section 3.4

Problem 2. Lecture notes Problem 4 (*Matched Filter Intuition*) of Section 3.4

Problem 3. Lecture notes Problem 11 (*Communication chain with two receive antennas*) of Section 3.4

You can assume that the priors are uniform.

Problem 4. Midterm Review

Review the midterm problems, and make sure you understand them. The next quiz will be on May 24 and will be inspired by one of the midterm problems. If you have properly understood the midterm problems, you should be able to do the quiz without difficulties.