University of Rhode Island Department of Electrical and Computer Engineering
ELE 435: Communication Systems

QPSK Report and Grading Format

1   Report Format

1. Briefly explain the procedure (what you did in the lab)

2. Show the Results/plots

3. Matlab Assignment: Write MATLAB code for the following.

   (a) Generate a QPSK signal, for binary sequences shown in figure 7.8, on pages 278 of the textbook. Result shown in figure 7.1 (a)

   (b) Generate the spectrum of a QPSK signal (results shown in figure 7.9 page 279 of the text book).

4. Answer the following questions

   (a) What is an eye-diagram or eye-pattern?

   (b) What is a signal constellation or constellation diagram? Show few examples and comment on the plots.

   (c) When are line codes, name a few.

   (d) What is inter-symbol interference?

   (e) In our own words, briefly talk about QPSK (pages 274-277 in the textbook)