ECE 460: Communication and Information Theory
Prof. B.-P. Paris
Homework 8
Due: November 8, 2018

Reading Madhow:

1. Chapter 4: sections 4.1 through 4.3 and Chapter 5: through section 5.6

Problems

1. Madhow: Problem 4.3

2. Madhow: Problem 4.7

3. Madhow: Problem 4.17 (consider using MATLAB)

4. Madhow: Problem 4.21 (only QPSK and 64-QAM)

5. Use the MATLAB script demo_pulseShape.m (URL: `http://www.spec.gmu.edu/~pparis/classes/resources_460/demo_pulseShape.m`) to construct a table that summarizes for each of the seven pulse shapes, the maximum ISI at multiples of the symbol period, the maximum ISI with timing error, and the 99% containment bandwidth.