1 Objectives

The objective for this lab is to consturct a sequence of shaped pulses and examine the role of pulse shape on intersymbol interference and the effect of noise.

During this lab we will look at 4 difference types of line code:

- \bullet Polar
- On-Off
- Bipolar
- Duobinary

2 Procedure

2.1 Pulse Types

During this lab we will be using a variety of pulse shapes. Below are the different pulse shapes that I used.

2.1.1 Raised Cosine Pulse

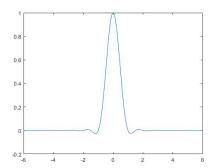


Figure 1: Raised Cosine Pulse

2.1.2 Triangle Pulse

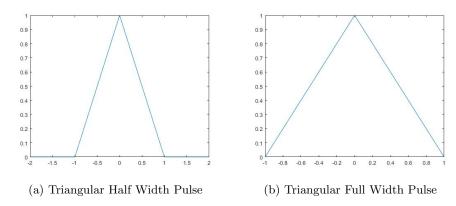


Figure 2: Triangular Pulse

2.1.3 Rectangle Half Width

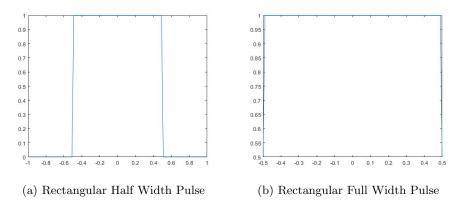


Figure 3: Triangular Pulse

2.1.4 Sinc

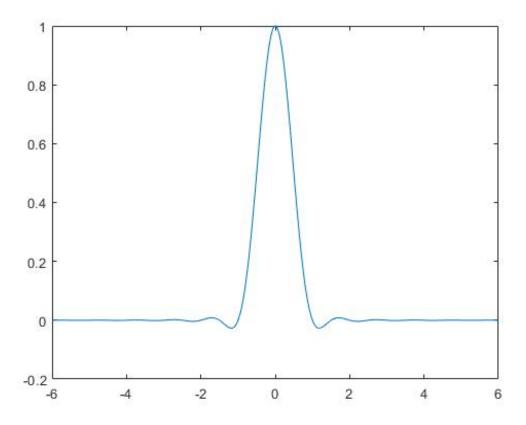


Figure 4: Raised Cosine Pulse

2.1.5 Sinc Squared

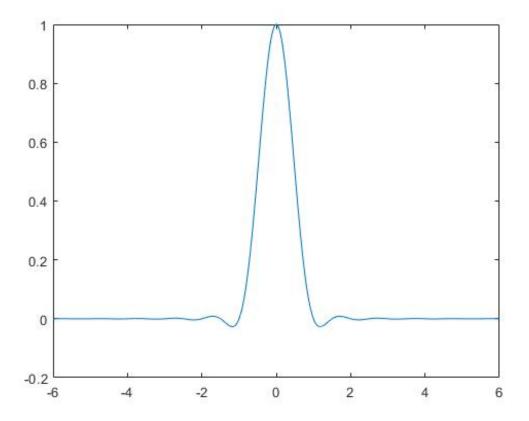


Figure 5: Raised Cosine Pulse

- 2.2 Sin Pulse
- 3 Results
- 3.1 Polar
- 3.2 On-Off
- 3.3 Bipolar
- 3.4 Duobinary