Communication Systems Lab

Lab Report (180030037)

Experiment 1 : Frequency Modulation (FM) and Demodulation using Envelope Detection Technique

Frequency Modulation (FM) Technique

Message Signal Parameters

Am = 1 V

Fm = 10 Hz

Carrier Signal Parameters

Ac = 3 V

Fc = 100 Hz

Frequency Deviation Value

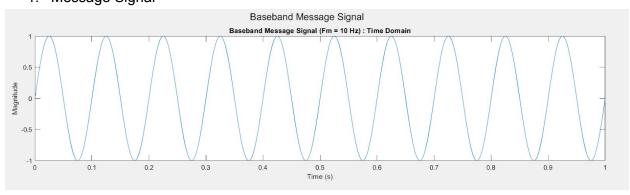
freqDev = 50 Hz

Sampling Parameters

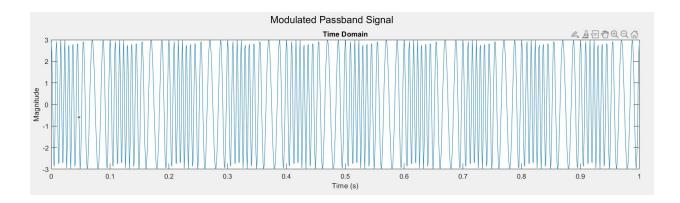
Fs = 1000 Hz

Time-Domain Plots

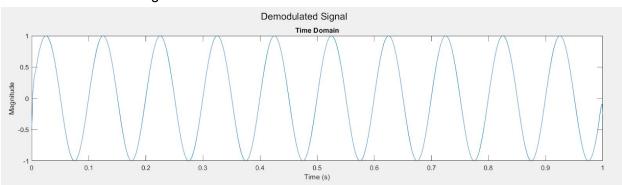
1. Message Signal



2. Modulated Signal

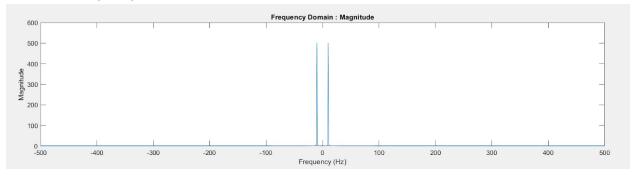


3. Demodulated Signal

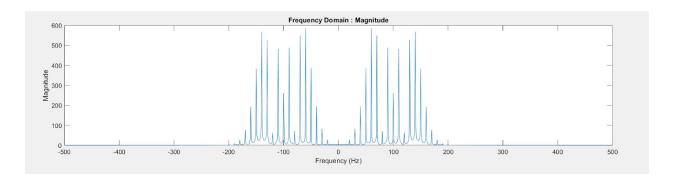


Frequency-Domain Plots

1. Message Signal



2. Modulated Signal



3. Demodulated Signal

