EEE-321L.3

Assignment - 02

Note: Write your Name & ID. Example: Student_Name_ID:1234567890 in all figure's titles

1. **Write MATLAB code for Phase modulation and demodulation using phase deviation. Here message signal is M(t)=1+square(2*pi*fm*t), and Carrier Signal is C(t)=cos(2*pi*fc*t). Phase Deviation kp=pi. Fm = 4 and Fc = 15, fs=1500.**
2. **Write MATLAB code for PCM. Here message signal is m(t)=2*sin(2*pi*fm*t), where fm = 3 and make 16 Quantize levels and codebook= -2: .2: 2**
3. **Write MATLAB code for ASK modulation. Take digital message signal bit stream like b = [0 1 1 0 1 1 1 0 1 1 0 1] from user, and Carrier Signal is C(t)=sin(2*pi*fc*t) and Fc = 1.**
4. **Write MATLAB code for FSK modulation. Take digital message signal bit stream like b = [0 1 1 0 1 1 1 0 1 1 0 1] from user, and Carrier Signal is C(t)=sin(2*pi*fc*t) and Fc = 3.**
5. **Write MATLAB code for PSK modulation. Take digital message signal bit stream like b = [0 1 1 0 1 0 1 0 1 1 0 1] from user, and Carrier Signal is C(t)=sin(2*pi*fc*t) and Fc = 3. And phase deviation kp=pi/4.**