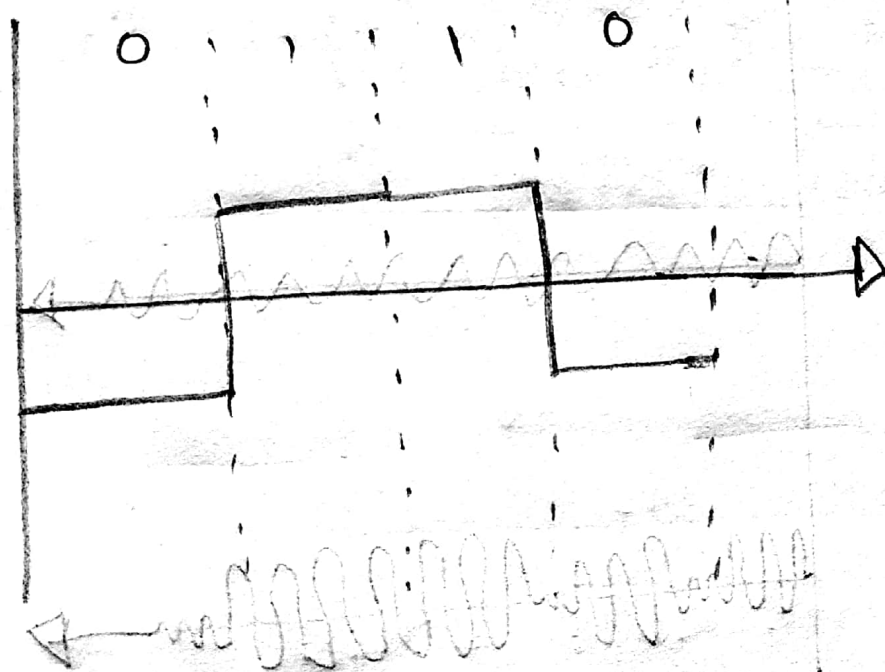


CHAPTER-4

Digital to Digital

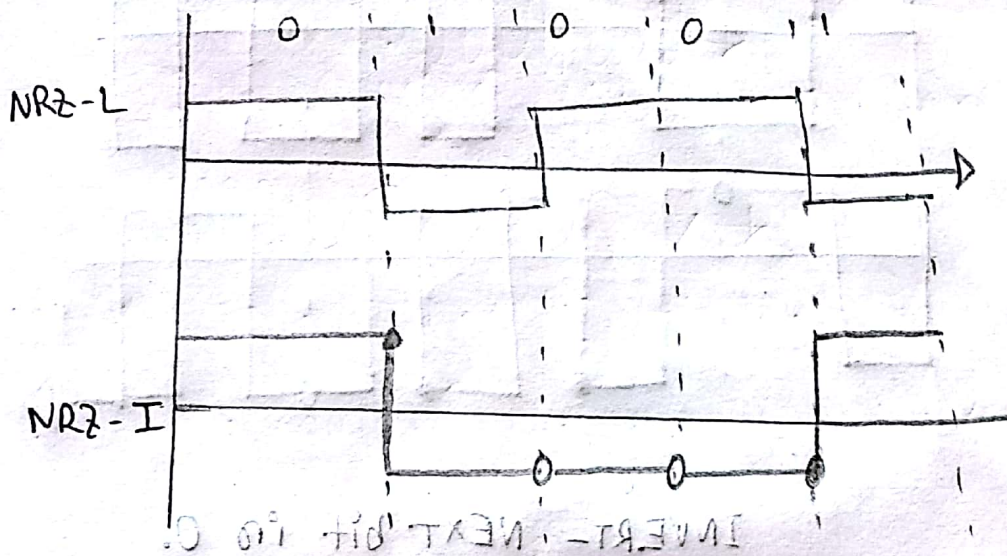
- ① Unipolar : NRZ
- ② Polar : NRZ, RZ, Biphase (Manchester, Diff Manch.)
- ③ Bipolar : AMI, pseudoternary;
- ④ Multilevel : 2B/1Q, 8B/6T, 4D-PAM5
- ⑤ Multitransition : MLT-3.

① Unipolar : NOT Return to zero.



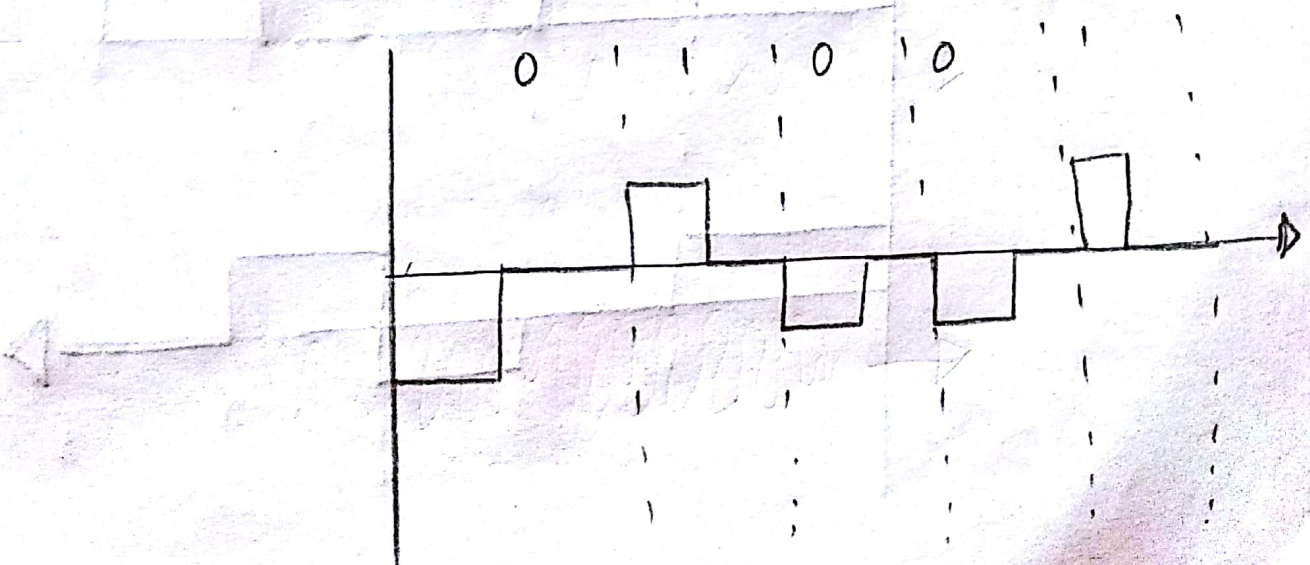
polar: (NRZ, RZ, bi-phase, Manchester)

NRZ-INVERT, NRZ-LEVEL

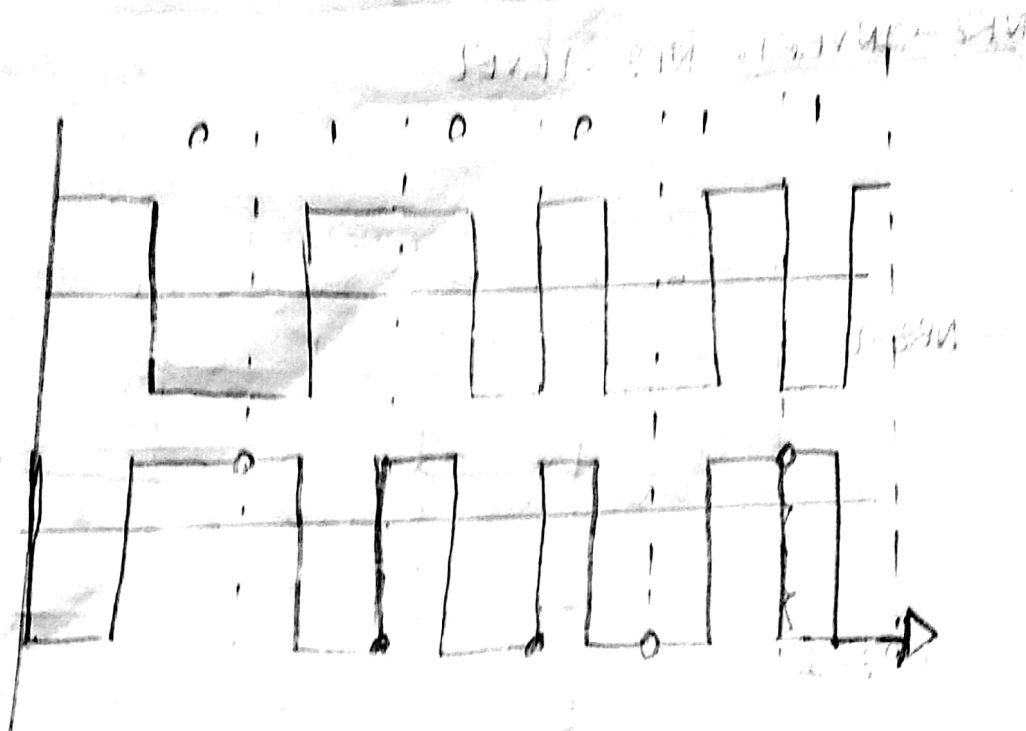


INVERT- IF NEXT BIT is 1.

RZ: (RETURN TO ZERO)

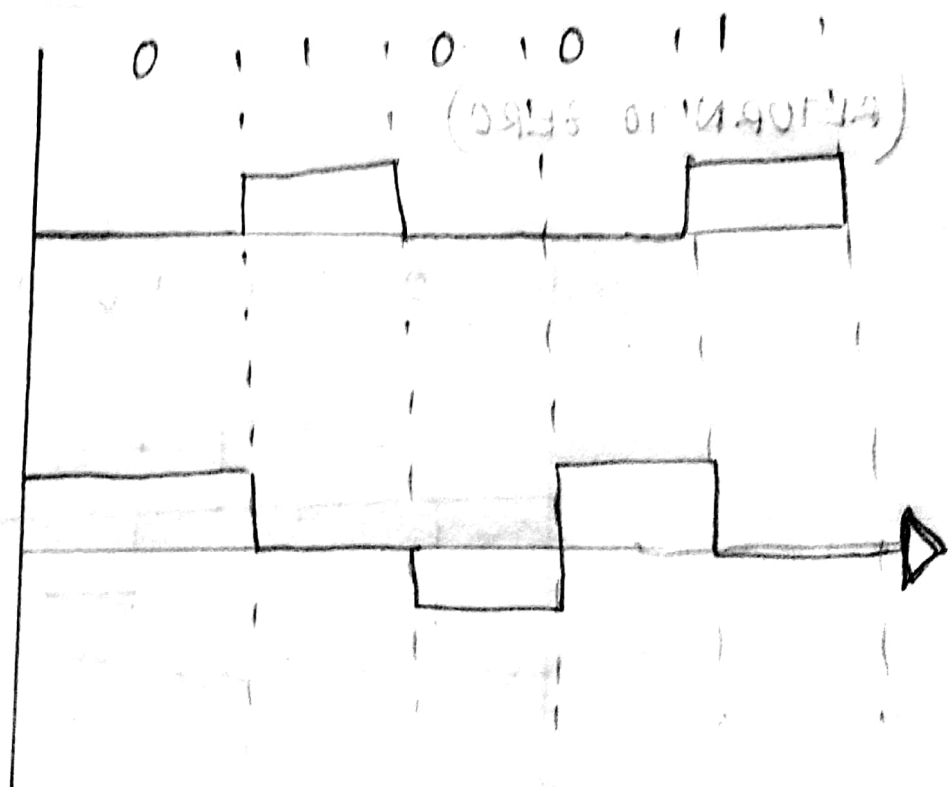


Biphase (Manchester, Differential, Manchester)



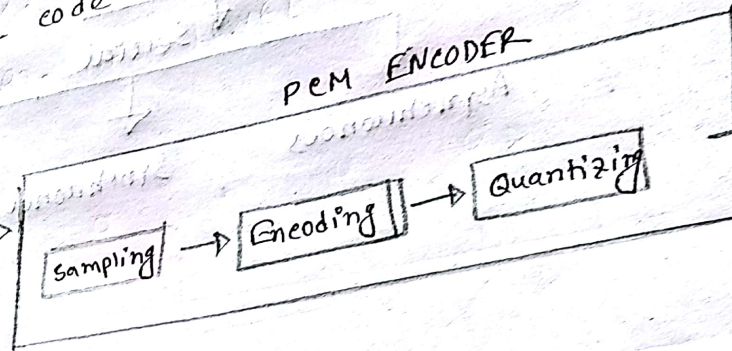
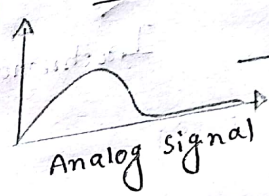
INVERT- NEXT bit is 0.

AMI



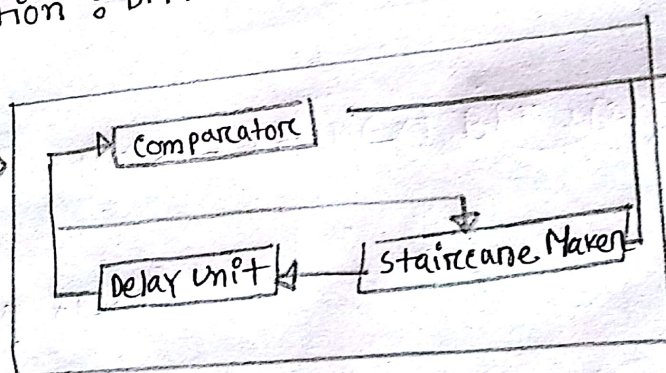
PCM (Pulse code Modulation)

components:



101001
Digital signal

Delta Modulation : DM. is the simplest technique.



101001
Digital Data

Data transmission

