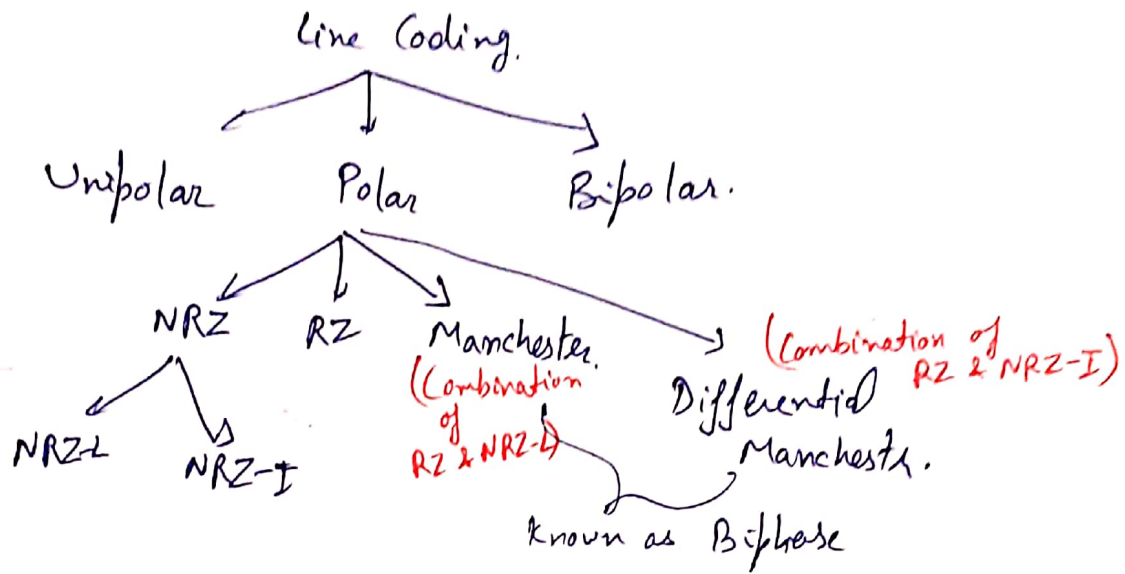
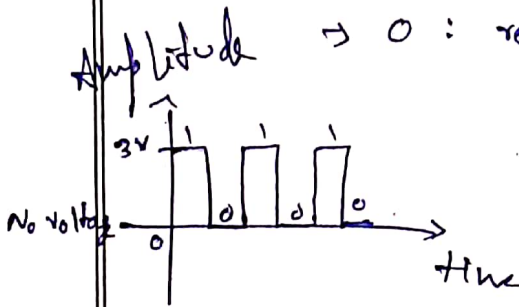


Page A
Date

(Line Coding) Digital to Digital Conversion



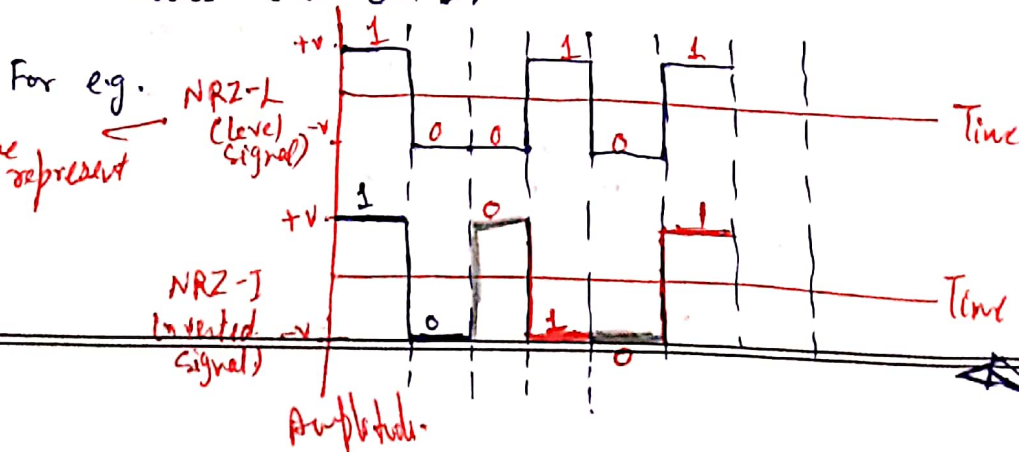
Unipolar → Single level to represent the data.
 → 1 → with high voltage.
 → 0 : represented with no voltage.



Polar → Multiple voltage levels are used to represent the bits 0 & 1.

(i) Polar NRZ (Non Return to Zero)

Uses two different voltage levels to represent the binary values i.e. 0 & 1.

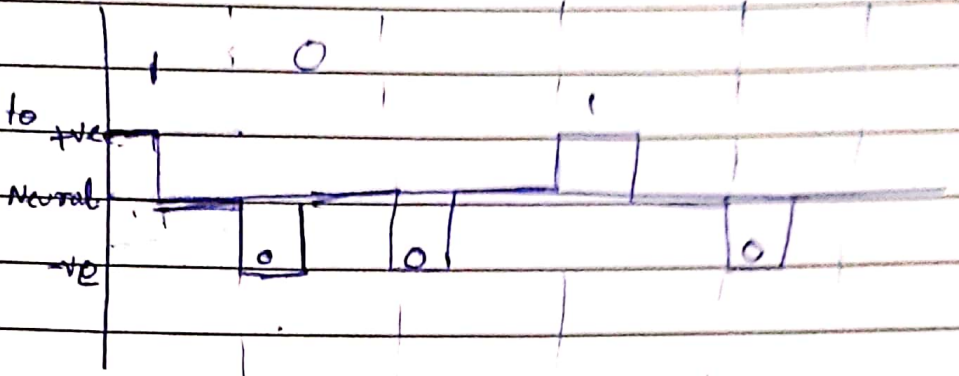


+ve & -ve voltages are used to represent 0 & 1.

Let's say Data bits are 100101
 So, Digital signals will be in Polar line coding with NRZ-L & NRZ-I

iii) RZ - Encoding
(Return to Zero)

In this each signal drops to zero between each pulse. zero between each bit is a neutral or rest condition.



Mid frequency shift keying

Bipolar \rightarrow 3 voltages +ve, -ve & 0 voltages.
to represent 1 \downarrow to represent 0.

lets say, Data bits are 100110101

Data Digital Signal by using Bipolar Line coding will be -

