Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali

https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9



Data Communication CS601 Lecture No 12

Lecture Prepared By

Muhammad Abid Ali

We are also Provide Online Classes for CS601

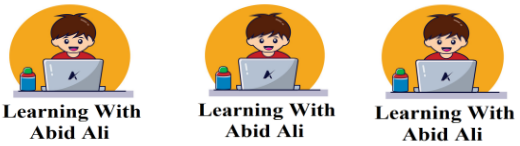
Contact Us on WhatsApp for join our online Classes

WhatsApp No 03449767315

CS601 Lecture No 12 Topic 54 to 60

Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali



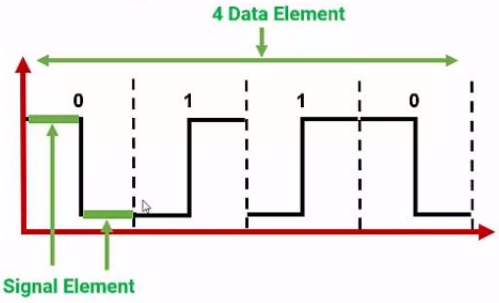
https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9

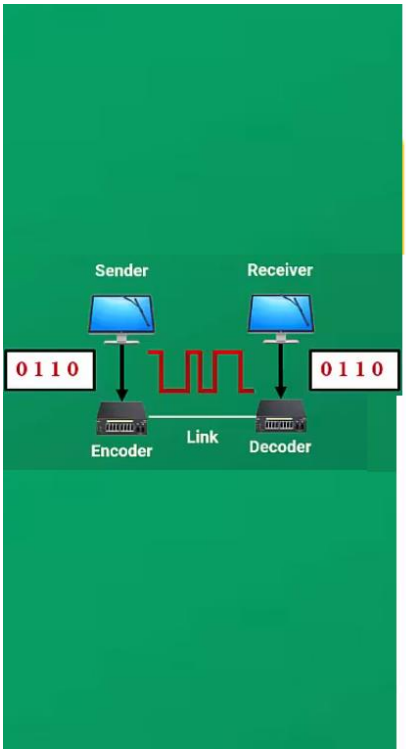
Digital Transmission

- There are two types of signals that can be transmitted. These transmitted signals are known as Digital Transmission. These two digital transmission are:
- Digital to Digital Conversion
- Analog to Digital Conversion
- First of all we discussed Digital to Digital Conversion. Three methods are used for this conversion:
- Line Coding — Always Needed
- Block Coding — May NOT needed
- Scrambling — May NOT needed

Data Element: A smallest unit which carry some piece of Information (Bits) → Carried

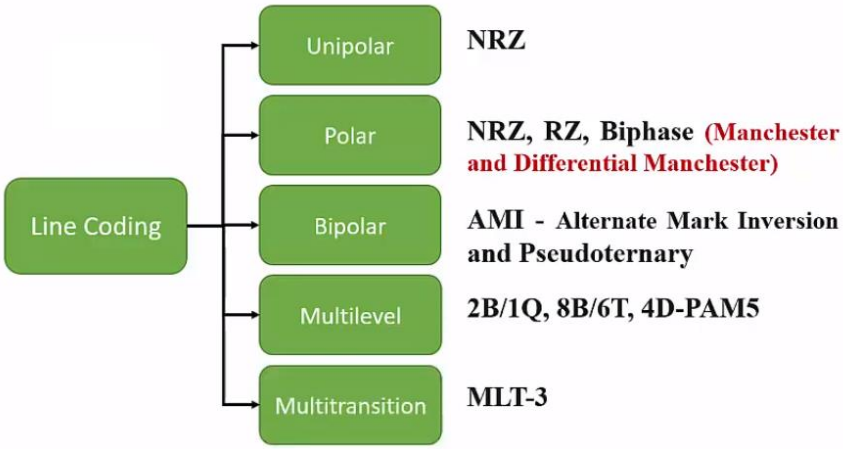
Signal Element: A shortest unit in terms of time of the digital signal. → Carriers





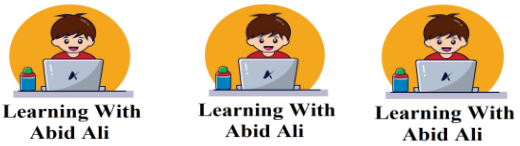
Line Coding

Data can be Text, Numbers, Images, Audio or Video store into the computer in forms of bits in a sequence. In Line Coding these bits converted into Digital Signals. There are multiple techniques for line coding these are five in numbers.

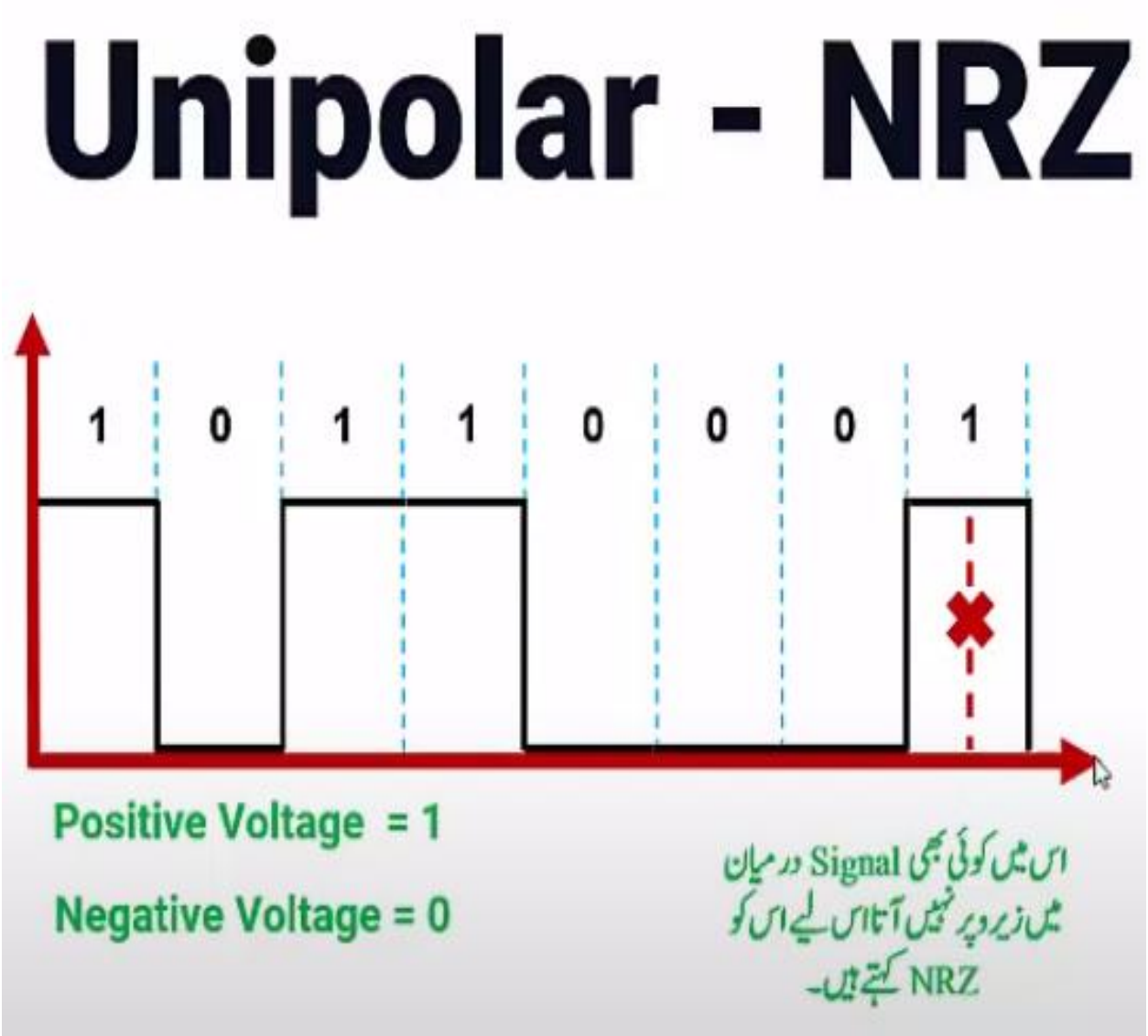


Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali

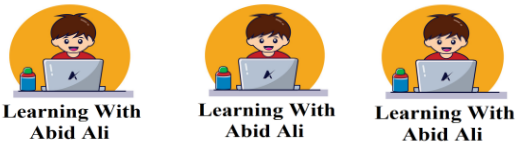


https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9

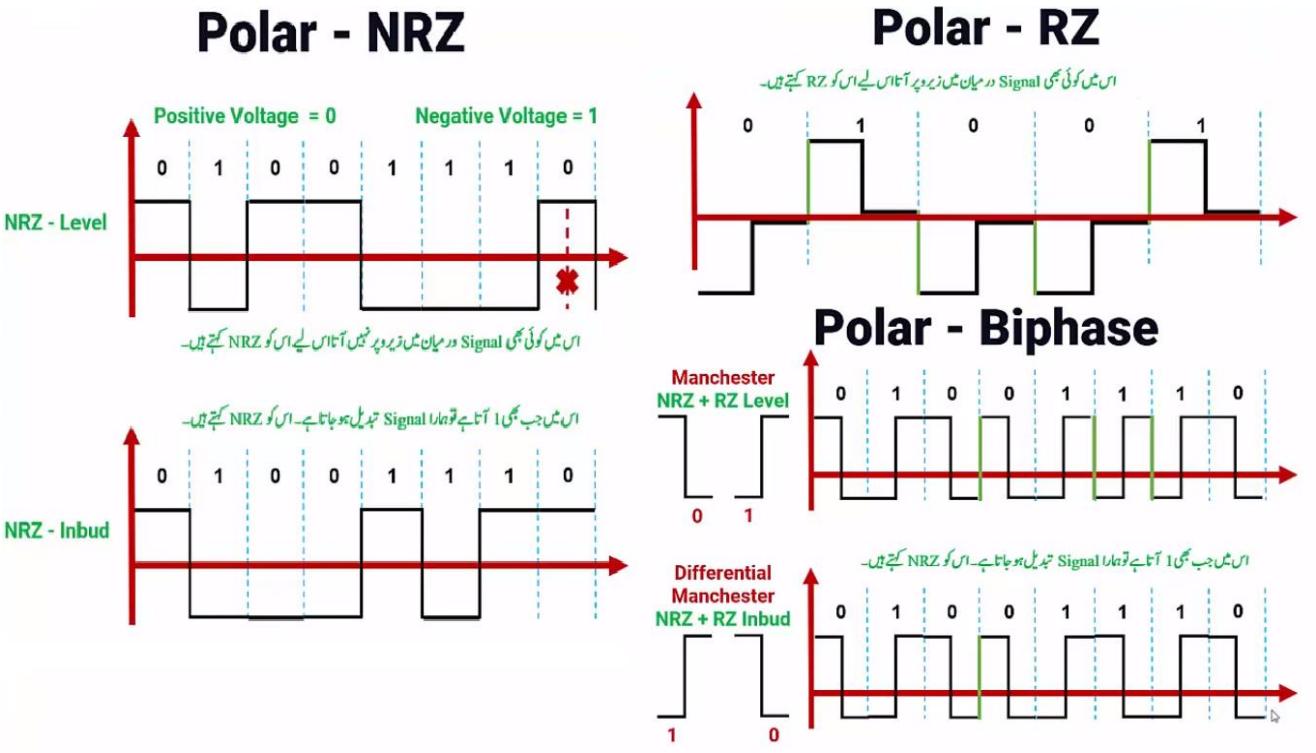


Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali



https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9

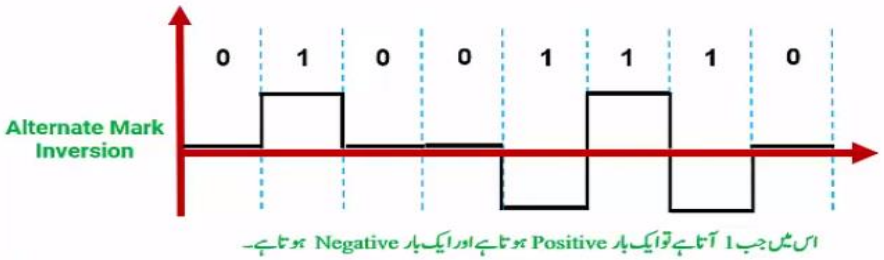


Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali

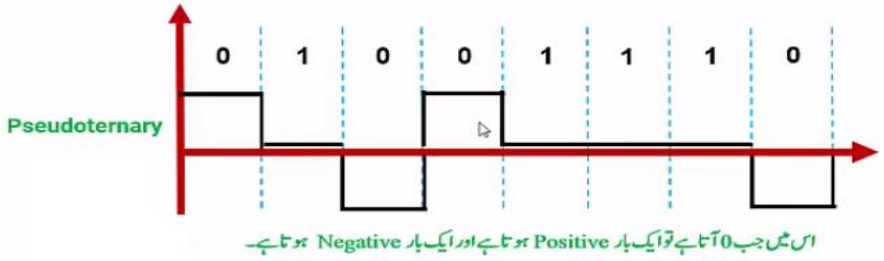
https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9

Bipolar - AMI



اس میں جب 1 آتا ہے تو ایک بار Positive ہوتا ہے اور ایک بار Negative ہوتا ہے۔

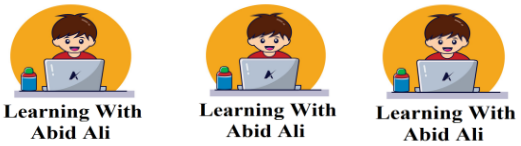
Bipolar - Pseudoternary



اس میں جب 0 آتا ہے تو ایک بار Positive ہوتا ہے اور ایک بار Negative ہوتا ہے۔

Visit Our Channel for CS601 Short Lectures

Learning With Abid Ali



https://www.youtube.com/watch?v=-0kr2sG8JUQ&list=PLAUocDaOe9K6nDHAxKa-7fHsIFAKBPE8q&index=9

Multilevel - 2B/1Q (Two Binary and One Quaternary)

The objective of this method is to increase the data rate and decrease the required bandwidth.

اس Technique میں ڈیٹا کی 2 Bit ٹرانسفر ہوتی ہیں۔

