

CODING AND DIGITAL MODULATION TECHNIQUES

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DIGITAL COMMUNICATION

- Digital communication involves transmission of information in digital form or encoded form, from a source through channel to destination.

ADVANTAGES

- Digital technology
 - Low cost LSI/VLSI technology
- Data integrity
 - Longer distances over lower quality lines
- Capacity utilization
 - High bandwidth links economical
 - High degree of multiplexing easier with digital techniques
- Security & Privacy
 - Encryption
- Integration
 - Can treat analog and digital data similarly

CODING

- Coding takes data bits from their source and converts them into a standard form.
- Both sender and receiver must agree on what specific digital patterns will represent the data to be represented.

- Digital signals in 1 or 0 can have only four combinations which are not sufficient to represent all alphabets, symbols and characters.
- Therefore a kind of coding is needed