

Analog Communication Technique Note 5

Baseband vs Passband Transmission

- Baseband signals:
 - Voice (0-4kHz)
 - TV (0-6 MHz)
- A signal may be sent in its baseband format when a dedicated wired channel is available.
- Otherwise, it must be converted to passband.

Modulation

- Modulation is a process that convert a message signal into a suitable form to transmit over a long distance through a communication channel.
- This is necessary because the message signal being a low frequency signal, that cannot be transmitted efficiently over the channel directly.

What is Modulation?

- The process of shifting the baseband signal (low frequency signal) to passband range or high frequency is called Modulation.
- In the modulation process, some characteristic of a high-frequency carrier signal (band pass), is changed according to the instantaneous value of the information (baseband) signal.
- The process of shifting the passband signal to baseband frequency range is called Demodulation.

Need for Modulation

- There are various reasons why modulation is necessary in electronic communication systems.
- **Ease of Radiation / Transmission:** It is extremely difficult to radiate low frequency signals from an antenna in the form of electromagnetic energy.

Analog Communication Techniques Short Question With Answer

Anthony S. Fauci



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