

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

B. Somanathan Nair, S. R. Deepa



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Basic Electronics & Communication Engineering: Electronics & Communication Short Questions and Answers

Yashwant Kumar Parte, 2022-08-25 The book Basics of Electronics and Communication Engineering Short Question and Answers is written to cater the needs of students for review purpose at the Engineering or polytechnic level of Electronics and Communication Telecommunication Engineering streams The basic principles of the book are learning and motivation Easy explanation of practice problems and short answer type review questions are the principal features of this book

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Grahame Smillie, 1999-04-02 The rapid expansion of digital communications particularly in the fields of TV and mobile telephones does not override the need for a clear understanding of analogue frequencies Moreover analogue technology will play an important role in communications well into the 21st century Covering the principles behind analogue and digital communication systems this book takes a less mathematical approach than is often found at this level It begins with basic principles such as information systems data compression and error detection before moving on to more advanced topics such as Pulse Code Modulation systems and digital microwave systems Data protocols are also given so that the reader can gain a good understanding of more complex communication systems Analogue and Digital Communication Techniques

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