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MODERN AGE **Amplitude**

Modulation and Frequency

Modulation Basics Of

Communication System QAM,

QPSK Explanation *What is*

modulation \u0026 Why it is

so important? ~~Why do we need~~

~~modulation during~~

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Advantages of Modulation.

Antenna size gets reduced.

No signal mixing occurs.

Communication range

increases. Multiplexing of

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signals occur. Adjustments
in the bandwidth is allowed.
Reception quality improves.

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Modulation, and ...

the mode of communication,
the need for modulation,
production and detection of
amplitude modulation.

Elements of a Communication
System : Every communication
system has three essential

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elements- (i) transmitter
(ii) medium/channel (iii)
receiver Information ...

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PRINCIPLES OF COMMUNICATION
SYSTEMS

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If we take the process forward by another step and discard one of the two redundant and duplicate information-carrying sidebands, we would improve the communication system efficiency by another 2x

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factor. This would give rise to Single Sideband Suppressed Carrier (SSBSC) transmission mode. This is popularly called SSB mode. The SSB mode provides maximum efficiency of information communication

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because it no more contains
any non-productive or
redundant component of
modulated RF energy.

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For a perfect modulation, the value of modulation index should be 1, which means the modulation depth should be 100%. For instance, if this value is less than 1, i.e., the modulation index is 0.5,

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then the modulated output would look like the following figure. It is called as Under-modulation. Such a wave is called as an under-modulated wave.

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Modulation, Phase Modulation
etc. Sampling process and
Quatization, including
Nyquist criterion and
reconstruction of the
original signal from the
sampled signal will be dealt
with in the later parts of

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advantages for implementing
modulation in the
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Antenna size gets reduced.

No signal mixing occurs.

Communication range
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- Noise. In any communication system, during the transmission of the signal, or while receiving the signal, some unwanted signal gets introduced into the communication, making it unpleasant for the receiver,

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questioning the quality of the communication. Such a disturbance is called as Noise.

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In analog modulation

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sinusoidal signal is used as carrier where as in digital modulation pulse train is used as carrier. Need for modulation: Modulation is needed in a communication system to achieve the following basic needs 1)

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Multiplexing 2)

Practicability of antennas

3) Narrow banding. 8.

Sections on important areas
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