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Modulation ? Why
Modulation is
Required ? Types of
Modulation Explained.

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Modulation | B.P.

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Communication
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(Modulation \u0026
Demodulation)

23. Modulation, Part 1
Intoduction to
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Module: 1 introduction
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system FA

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Introduction to Analog
and Digital
Communication | The
Basic Block Diagram
of Communication~~

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modulation | Lecture 3
| Communication
System BTCL-2015
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Question || BP Lathi
Exercise Problems
Solution || EEE Job
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1.1 - EVOLUTION OF
COMMUNICATION -
STONE AGE TO
MODERN AGE
Amplitude Modulation

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Modulation Basics Of
Communication

System QAM, QPSK

Explanation What is
modulation \u0026amp;

Why it is so

important? ~~Why do~~

~~we need modulation~~

~~during transmission?~~

Methods of

Communication

Types of

Communication

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#170: Basics of IQ

Signals and IQ
modulation \u0026
demodulation - A

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Modulation And
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|Introduction to SSB
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KANPUR Amplitude
Modulation Definition,
basics \u0026

Derivation,
Communication
Engineering by
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Systems |
Introduction to Angle
Modulation | IIT
KANPUR FA 20_L22
| Analog/Principle of
Communication
Systems | FM
Modulation Index | B
P Lathi Lect 08 | Angle
Modulation (part 2) |
Communication
System | By Saket Sir~~

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Principles Of
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~~GATE/ESE/ISRO~~
Principles Of
Modulation And
Systems Modulation

Advantages of Modulation. Antenna size gets reduced. No signal mixing occurs. Communication range increases.

Multiplexing of signals occur. Adjustments in the bandwidth is

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allowed. Reception
quality improves.
Systems

Principles of
Communication -
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Tranter. □ Seventh
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(paper) 1.

Telecommunication.

2. Signal theory

(Telecommunication)

I. Tranter, William H.

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PRINCIPLES OF COMMUNICATIONS: Systems, Modulation, and Noise

Principles of
Communications:
Systems, Modulation,
and Noise 4th Edition
by Rodger E. Ziemer
(Author)

Principles of
Communications:
Systems, Modulation,

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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 elements-(i) transmitter (ii) medium/channel (iii)

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Communication
System.p65 E 1 3

PRINCIPLES OF
COMMUNICATION
SYSTEMS

If we take the process forward by another step and discard one of the two redundant and duplicate information-carrying

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sidebands, we would improve the communication system efficiency by another 2x factor.

This would give rise to Single Sideband Suppressed Carrier (SSBSC) transmission mode.

This is popularly called SSB mode.

The SSB mode provides maximum

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

Radio Signal
Modulation Principles
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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, then the modulated output would look like the following figure. It is called as Under-

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modulation. Such a wave is called as an under-modulated wave.

Amplitude Modulation
- Tutorialspoint

Beginning with various basic tools such as Fourier Series/ Transform, the course will also cover several important modulation

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techniques such as
Amplitude Modulation,
Frequency
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 the
course.

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Communication
Systems - I - Course

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Communication
process, Source of
information,
Communication
channels, Base-band
and Pass-band

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Principles Of
signals, communication
Representation of
signal and...
Modulation And

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Following are some of
the advantages for
implementing
modulation in the
communication
systems. Antenna

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size gets reduced. No signal mixing occurs. Communication range increases.

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Principles of
Communication -
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In this tutorial, the basic concepts of communications along with the important concepts of analog and digital

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Communication have
been covered. This
tutorial is helpful for a
beginner who wants
to acquire knowledge
on the communication
systems. There are a
few topics in this
tutorial covering the ...

Principles of
Communication
Tutorial -
Tutorialspoint

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Principles of
Communication:
Systems, Modulation
and Noise, 5th Edition
by Ziemer, Rodger E.,
Tranter, W. H. (2001)
HardcoverHardcover
1600. 5.0 out of 5
stars3 customer
reviews.

Principles of
Communication:
Systems, Modulation

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The updated seventh edition of Principles of Communications And Noise 5th Edition presents readers with a more supportive framework for learning through additional in-chapter examples. Chapter 3, basic modulation techniques, has been split into linear modulation

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Communications, 7th
Edition | Wiley

Ziemer and Tranter
provide a thorough
treatment of the
principles of
communications at
the physical layer
suitable for college

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Seniors, beginning
graduate students,
and practicing
engineers. This is
accomplished by
providing overviews of
the necessary
background in signal,
system, probability,
and random process
theory required for the
analog ...

Principles of

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Tranter ...

Principles of
Communication -
Noise. In any
communication
system, during the
transmission of the
signal, or while
receiving the signal,
some unwanted
signal gets introduced
into the

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Communication,
making it unpleasant
for the receiver,
questioning the
quality of the
communication. Such
a disturbance is called
as Noise.

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Communication -
Noise - Tutorialspoint
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Introduction - Prof.
Aditya K.
Jagannatham ... M-
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Review of
signals and systems,
Frequency domain of
signals, Principles of
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Systems- DSB, SSB
and VSB modulations.
Angle Modulation.,
Representation of FM
and PM signals.

Department of

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Electrical Communication
Engineering, IIT
Bombay

In analog modulation 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

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1) Multiplexing 2)
Practicability of
antennas 3) Narrow
banding. 8.
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