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Chennai. ~~Amplitude~~

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Amplitude modulation

(AM) is one of the

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Modulation

oldest of the modulation methods.

It is still in use today

in a variety of

systems, including, of

course, AM broadcast

radio. In digital form it

is the most common

method for

transmitting data over

optical fiber. If $x(t)$ is a

baseband $x(t)$ message_

signal with a peak

value A

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the link below 'pefrom
experiment' and a
window showing
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will open. 2. Vary the
carrier signal's
frequency and
amplitude and
modulating signal's
frequency and
amplitude to observe
the Amplitude ...

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~~(Simulation~~

~~experiment)~~

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In amplitude

modulation (AM), the

message signal is

impressed on the

amplitude of the

carrier signal. This

results in a signal

whose amplitude is a

function of the

message signal.

Forms of AM: AM

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signals may be of various types such as

1. Conventional double sideband AM (DSB-AM)
2. Double sideband suppressed carrier AM (DSBSC-AM)
3. Single ...

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Amplitude modulation:

Modulation is a process of translating

information signal

from low band

frequency to high

band frequency that is

suits the transmission

medium. Information

signal is usually of low

frequency, so it

cannot travel far. It

needs a carrier signal

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of higher frequency
for long distance
destination.

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Modulation 5.1

Summary This

laboratory exercise

has two objectives.

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The first is to gain experience in actually programming the USRP to act as a transmitter or a receiver. The second is to investigate classical analog amplitude modulation and the envelope detector. 5.2

Background 5.2.1

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-labs ... Modulation

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Amplitude modulation is one of the earliest radio modulation techniques. The receivers used to listen to AM-DSB-C are perhaps the simplest receivers of

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any radio modulation technique; which may be why that version of amplitude modulation is still widely used today.

~~LABORATORY MANUAL~~

□ The Amplitude modulation receiver will be wider when compared to the FM receiver. Because,

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atmospheric propagation is good for amplitude modulated signals.

- Bandwidths limit is also big advantage for Amplitude modulation, which doesn't have in frequency modulation.
- Transmitter and receiver are simple in Amplitude modulation.

~~Analog~~

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Experimental setup In
this section we

describe the circuits
used for generation
and demodulation of
amplitude modulated
signals. An analog
multiplier IC AD633
(Analog Devices) has
been used to
generate the AM
signal. The AD633 is

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a functionally

complete, four-
quadrant, analog
multiplier.

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Amplitude modulation (AM) is defined as a process in which the amplitude of the carrier wave $c(t)$ is varied about a mean value, linearly with the base band signal $m(t)$. An AM wave may thus be described, in its most general form, as a function of time

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Modulation
as follows.

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Analog

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SSB MODULATION:

In radio

communications,

single-sideband

modulation (SSB) or

single-sideband

suppressed-carrier

modulation (SSB-SC)

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Modulation

is a type of modulation, used to transmit information, such as an audio

signal, by radio

waves. A refinement of amplitude modulation, it uses transmitter power and bandwidth more efficiently.

Amplitude modulation produces an output signal the bandwidth of which is ...

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modulation:

Modulation is a
process of translating

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Information signal from low band frequency to high band frequency that is suits the transmission medium. Information signal is usually of low frequency, so it cannot travel far. It needs a carrier signal of higher frequency for long distance destination.

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Diagram and detailed
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Passenger - 2017.
Savana Cargo Van -
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blocks were designed
using multisim
software (version12)
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modulation, mutism
software, Multiplier,

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of Frequency

modulator and ...

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In your lab write up
compare this with
what is expected for a
modulation depth of m
 $= 1$. T12 Measure the
peak-to-peak

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amplitude of the AM signal, with $m = 1$, and confirm that this magnitude is as predicted, knowing the signal levels into the MULTIPLIER, and its 'k' factor. The significance of 'm'

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Objective. To
understand the
theoretical
foundations of Analog
Communications as
well as of Double-

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Side-Band Amplitude Modulation and Demodulation (DSB-AM) To design the Simulink model of the DSB-AM to analyze each signal in ...

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amplitude of carrier signal varied according to audio input signal. In order to generate AM we just need to add a DC to input signal and multiply it to carrier signal, which generates modulated waveform. In this way an envelope gets created around the carrier signal, which

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Modulation
follows the input audio
signal Figure 1

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