

Pulse Amplitude Modulation Demodulation Lab Manual

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Pulse Amplitude Modulation
Demodulation Lab Pulse amplitude modulation is a technique in which the amplitude of each pulse is controlled by the instantaneous amplitude of the modulation signal. It is a modulation system in which the signal is sampled at regular intervals and each sample is made proportional to the amplitude of the signal at the instant of sampling. Pulse Amplitude Modulation (PAM) Theory of and Its ... Communication Lab Instruments Offering you a complete choice of products which include telephone trainer, dsb sc modulation demodulation, numerical fibre optic trainer, pulse amplitude modulation demodulation, pulse code

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modulation demodulation and pulse position modulation

demodulation. Communication Lab Instruments - Pulse Amplitude

Modulation ... • PAM- Pulse

Amplitude Modulation: - The pulse may take any real voltage value

that is proportional to the value of the original waveform. No

information is lost, but the energy is redistributed in the frequency

domain. • PCM- Pulse Code

Modulation: - The original waveform amplitude is quantized with a

resulting loss of

information Sampling PAM- Pulse Amplitude Modulation

(continued) Lab 1 - AM Modulation -

Prof. Dutton - EE133 - Winter 2004

1 EE133 - Lab 1 Amplitude

Modulation and Demodulation 1 Lab

Notes • A Word about Power:

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Remember that the SA612 is not rated for 9V. We recommend that you power it up with 4.5V (and remember to use bypass capacitors). Note that this is on the very low end of the recommended voltage range. EE133 - Lab 1

Amplitude Modulation and

Demodulation Microwave and

Digital communication Lab 2 Expt

No: 1 PULSE CODE MODULATION

AND DEMODULATION AIM: To Study

& understand the operation of the

Pulse code modulation &

Demodulation. APPARATUS: 1. PCM

Modulator trainer 2. PCM

Demodulator trainer 3. Storage

Oscilloscope/ Dual Trace

Oscilloscope DIGITAL

COMMUNICATIONS LAB 2. To study

amplitude demodulation by linear

diode detector 3. To study

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frequency modulation and determine its modulation factor 4. To study PLL 565 as frequency demodulator 5. To study sampling and reconstruction of Pulse Amplitude modulation system 6. To study Pulse Amplitude Modulation a. using switching method b. by sample and hold circuit

7. COMMUNICATION-I LAB MANUAL

EEC-552 4. Frequency modulation and demodulation 5. Study of Spectrum Analyzer and Analysis of AM and FM Signals 6. Pre-emphasis and de-emphasis 7. Time division multiplexing and de-multiplexing 8. Frequency division multiplexing and de-multiplexing 9. Verification of sampling theorem 10. Pulse amplitude modulation and demodulation 11. Analog Communication Lab Manual ,

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Prepared by Nakka. Ravi ... To study and perform Pulse Width Modulation and Demodulation. 5 Modulation and Demodulation. To study and perform Pulse Position 6 To study and perform Pulse Code Modulation and Demodulation. 7 To study Time Division Multiplexing Scheme. 8 To study and perform Amplitude Shift Keying Modulation and Demodulation. 9 Modulation and Demodulation. LABORATORY MANUAL 3. SSB-SC Modulation & Demodulation 4. Frequency Division Multiplexing & Demultiplexing 5. Frequency Modulation & Demodulation 6. PLL as FM Demodulator 7. Spectral Characteristics of AM & FM 8. Verification of Sampling Theorem 9. Pulse Amplitude Modulation & Demodulation 10. Time Division

Multiplexing & Demultiplexing

11.Pulse Width Modulation 12

... Analog Communications Lab

Manual (S/W) The simple pulse

modulation technique called Pulse

Amplitude Modulation (PAM) proved

to be more power efficient than the

PWM and consumes constant power

for individual pulses like PPM. In

PAM the amplitude of the individual

pulses are varied according to the

amplitude of the modulating

signals. The PAM modulator and

demodulator circuits simple

compared to other kind of

modulation and ... Circuit Design:

Pulse Amplitude Demodulation We

are an acclaimed name in

manufacturing, trading and

supplying our precious clients a

highly efficient Pulse Amplitude

Modulation Demodulation. This

instrument is ideally used for studying pulse amplitude modulation and demodulation, offered instrument is appreciated for its optimum quality. Pulse

Amplitude Modulation

Demodulation, Electronics Lab

... Amplitude modulator Circuit with AD633 The AD633 can be used as a linear amplitude modulator with no external components. Figure 5 shows the circuit. The carrier and modulation inputs to the AD633 are multiplied to produce a double sideband signal. Amplitude Modulation and Demodulation (Real time ... PCM modulation is commonly used in audio and telephone transmission. The main advantage is the PCM modulation only needs 8 kHz sampling frequency to maintain the original

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quality of audio. Figure 1.1 is the block diagram of PCM modulation. First of all low pass filter is the, which is used to remove the noise in the audio signal. Experiment Pulse Code Modulation (PCM) We have marked a distinct and dynamic position in this industry by manufacturing, trading & supplying qualitative TDM Pulse Amplitude Modulation Demodulation. This product is designed with premium quality material under the guidance of experts. Our product has facility to study time division multiplexing. Advanced Communication Lab - Hamming Code Trainer ... Amplitude Shift Keying (Theory with Lab experiment) - Duration: 7:54. ... PULSE AMPLITUDE MODULATION AND DEMODULATION TRAINER -

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Duration: 5:35. pantechsolutions
18,907 views. Pulse Amplitude
Modulation Today communication is
the heart of the technology.

Communication is achieved over a
transmitter and a receiver through
signals. These signals carry the
information through modulation.

Pulse Amplitude Modulation is one
of the kinds of modulation
techniques used in signal

transmission. Pulse amplitude
modulation is the simplest form of
modulation. Circuit Design of Pulse

Amplitude Modulation The pulse
width demodulation circuit with the
first order low pass filter used for
the demodulation is given in the

following figure. Fig. 8: Circuit
Diagram of Pulse Width

Demodulation Circuit with Low Pass
Filter . The demodulated signal

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might require amplification and further filtering to achieve good quality message signal. Circuit Design: Pulse Width

Demodulation In pulse amplitude modulation (PAM), the information, signal is sampled at the sampling rate and the carrier pulse In pulse is discretely amplitude - modulated at the sampling frequency. For faithful transmission, the signal should It-119 The information is transferred to e sampled sufficiently. the pulse at the sampling frequency.

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