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The objective of this laboratory session is to introduce the basics of transmitter and receiver design. At the transmitter, we focus on modulation; while at the receiver, we focus on demodulation and detection. Modulation is the variation of parameters of a

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sinusoidal carrier according to the data.

LAB 3: MODULATION AND DETECTION

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Laboratory Project 3. Frequency Modulation and Detection. Objectives. This project has 2 parts. In Part 1, you will investigate the performance of the slope detector. In Part 2, you will model an FM communications systems using the Matlab Simulink Communications Systems Toolbox. In both parts, you will test the system with single-tone FM (w and w/o added Gaussian noise). Equipment and Software ...

ECOMMS - Lab Project

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Amplitude Modulation and Demodulation Lab#3

Objective To observe amplitude

modulation/demodulation in the time and frequency domain. The 9410 AM / DSB / SSB Generator Controls and Connectors - Carrier Level - changes the level of the carrier when using AM. To produce DSB-SC and SSB change the carrier level to min. RF Tuning - sets the carrier frequency RF Gain -adjusts the level of the

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of ...

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Lab#3 Objective To observe amplitude modulation/demodulation in the time and frequency domain. The 9410 AM / DSB / SSB Generator Controls and Connectors - Carrier Level - changes the level of the carrier when using AM.

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PCM Generation and Detection. 2. Differential Pulse Code modulation. 3. Delta modulation. 4. Time Division Multiplexing of 2band Limited Signals. 5. Frequency Shift Keying: Generation and Detection. 6. Phase Shift Keying: Generation and Detection. 7.

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Amplitude shift Keying: Generation and Detection. 8.
Study of the spectral characteristics of PAM, QAM. 9.
DPSK: Generation and Detection. 10 ...

DIGITAL COMMUNICATIONS LAB

The input impedance for the modulation signal is 1 M Ω and the output impedance of the square/triangular wave is 50 Ω . In both cases above, if the modulating signal is a digital waveform, then the resulting FM signal is a frequency-shift- keying signal (FSK) which you have seen in experiment #2. 3.0 FM Detection (FM Discriminators):

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Experiment 6: Frequency Modulation (FM), Generation and ...

This project has 4 parts: * In Part 1, you will investigate the performance of the slope detector. * In Part 2, you will generate FM bandpass signals using the ICL8038 Precision Waveform Generator/Voltage Controlled Oscillator. * In Part 3, you will use the LM565 Phase-locked-loop for demodulating FM signals.

ECOMMS 12 - Lab 3 - Frequency Modulation & Detection

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Modulation and Detection John Staples, LBNL

November 2007. Linear Sum of Two Signals Equation

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of sinusoidally-varying voltage: $V(t) = V_0 \cos(\omega_0 t)$

linear sum of two waves: $V(t) = V_1 \cos(\omega_1 t) + V_2 \cos(\omega_2 t)$

cos $2,0t$ $2,0$ No new frequencies are generated.

Modulation is a non-linear process that generates additional frequencies. Amplitude Modulation This is a non-linear process, where the amplitude of ...

Modulation and Detection - USPAS

Lab 8 - FM Modulation and Detection Page 8-2 ©

2001-2010 Tom A. Wheeler U1 LM565 IN 2 IN 3 VIN 5

TRES 8 TCAP 9 VCC-1 VCC+ 10 VCON 7 VOUT 4 REF 6

C1 0.001 uF C3 0.1 uF

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EXPERIMENT #8 FREQUENCY MODULATION

LAB 1: AMPLITUDE MODULATION ACHIEVEMENTS:

Modeling of an amplitude modulated (AM) signal; method of setting and measuring the depth of modulation; waveforms and spectra; trapezoidal display. PREREQUISITES: A knowledge of DSBSC generation. Thus reviewing of the experiment entitled DSBSC generation would be an advantage. PRELAB: In this lab you will begin to look at the frequency power spectrum ...

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Communication II Lab (EELE 4170) Lab#2 PCM Modulation & demodulation Objectives: 1-To understand the operation theory of pulse coded modulation & demodulation. 2-To understand the theory of PCM modulation & demodulation circuit. Theory: 1. The operation theory of PCM modulation PCM modulation is a kind of source coding. The meaning of source coding is the conversion from analog signal to ...

Communication II Lab (EELE 4170) Lab#2 PCM Modulation ...

A PIN 4 we will apply the input binary signal and at

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PIN 3 the circuit will generate the ASK modulated wave. ask-modulation-circuit ASK Demodulation Process . Demodulation is the process of reconstructing the original signal at the receiver level. And it is defined as, whatever the modulated signal received from the channel at the receiver side by implementing the proper demodulated techniques ...

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