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Principles Of Communication 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 allowed. Reception

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PRINCIPLES OF COMMUNICATIONS: Systems, Modulation, and Noise

Other more complicated sets of orthogonal waveforms—Walsh codes and various pseudo-noise codes such as Gold codes and maximum length sequences—are also used in some communication systems. The process of combining these waveforms with data signals is sometimes called "modulation", because it is so very similar to the way modulation combines ...

Communication Systems/What is Modulation? - Wikibooks ...

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and bandwidth .

PRINCIPLES OF COMMUNICATION SYSTEMS

E:\Data\2014\Kota\JEE-Advanced\SMP\Phy\Electronics\Eng\3. Principles of Communication System.p65 38 E Propagation of Electromagnetic Waves : In case of radio waves communication, an antenna at the transmitter radiates the electromagnetic waves (em waves). The em waves travel through the space and reach the receiving antenna at the other end. As

PRINCIPLES OF COMMUNICATION SYSTEMS

The continuous wave modulation techniques are further divided into Amplitude Modulation and Angle Modulation. A continuous-wave goes on continuously without any intervals and it is the baseband message signal, which contains the information. This wave has to be modulated.

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noise. [Rodger E Ziemer; William H Tranter; Rosger E Ziemer]

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Digital modulation (or channel encoding) is the process of converting an input sequence of bits into a waveform suitable for transmission over a communication channel. Demodulation (channel decoding) is the corresponding process at the receiver of converting the received waveform into a (perhaps noisy) replica of the input bit sequence.

Channels, modulation, and demodulation

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