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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

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combining these waveforms with data signals is sometimes called "modulation", because it is so very similar to the way modulation combines

...

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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

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waves (em waves). The em waves travel through the space and reach the receiving antenna at the other end. As

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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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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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