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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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@inproceedings{Ziemer1985PrinciplesOC, title={Principles of communications : systems, modulation, and noise}, author={Rodger E. Ziemer and William H. Tranter}, year={1985} }

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Amplitude Modulation. Mathematical Expression. Following are the mathematical expression for these waves. Modulation Index. Bandwidth of Amplitude Modulation.

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Beginning with various basic tools such as Fourier Series/ Transform, the course will also cover several important modulation techniques such as Amplitude Modulation, Frequency Modulation, Phase Modulation etc. Sampling process and Quantization, including Nyquist criterion and reconstruction of the original signal from the sampled signal will be dealt with in the later parts of the course.

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the mode of communication, the need for modulation, production and detection of amplitude modulation. Elements of a Communication System : Every communication system has three essential elements-(i) transmitter (ii) medium/channel (iii) receiver Information ... Principles of Communication System.p65 E 1 3

## **PRINCIPLES OF COMMUNICATION SYSTEMS**

Chapter 2. Signal And Linear System Analysis. Chapter 3. Basic Modulation Techniques. Chapter 4. Principles Of Baseband Digital Data Transmission. Chapter 5. Overview Of Probability And Random Variables. Chapter 6. Random Signals And Noise. Chapter 7. Noise In Modulation Systems. Chapter 8. Principles Of Data Transmission In Noise. Chapter 9.

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For serving the purpose as a practical communication medium, the radio wave has to undergo a process of radio signal modulation. There are several ways of achieving the objective. For instance, we are all familiar with medium-wave and shortwave AM radio broadcast, or the FM radio that not only sounds better than typical AM broadcast radio but is also capable of stereophonic transmission.

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ary, with communications taken for granted in modern society to the same extent as electricity. There is therefore a persistent need for engineers who are well-versed in the principles of communication systems. These principles apply to communication between points in space, as well as communication between points in time (i.e, storage).

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