

Principles Spread Spectrum Communication Systems Edition

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Principles Spread Spectrum Communication Systems

In telecommunication and radio communication, spread-spectrum techniques are methods by which a signal (e.g., an electrical, ... (PSD), spread-spectrum systems require the same amount of energy per bit before spreading as narrowband systems and therefore the same amount of power if the bitrate before spreading is the same, but since the signal ...

Spread spectrum - Wikipedia

Frequency-hopping spread spectrum (FHSS) is a method of transmitting radio signals by rapidly changing the carrier frequency among many distinct frequencies occupying a large spectral band. The changes are controlled by a code known to both transmitter and receiver. FHSS is used to avoid interference, to prevent eavesdropping, and to enable code-division multiple access (CDMA) communications.

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Frequency-hopping spread spectrum - Wikipedia

Spread spectrum systems expand beyond this point to many different paths: modulation schemes, performance under fading, under interference, capacity in CDMA systems, etc. ... "Principles of mobile communication," Kluwer Academic, Boston 1996. [2] J. G. Proakis, "Digital Communications," 4th Edition, McGraw-Hill Higher Education. ...

Understanding Spread Spectrum for Communications - NI

Principles of cellular frequency reuse In the cellular concept, frequencies allocated to the service are re-used in a regular pattern of areas, called 'cells', each covered by one base station. In mobile-telephone nets these cells are usually hexagonal. ... Spectrum Efficiency In most cellular systems, each base station can carry more than one ...

Principles of cellular frequency reuse - Wireless Communication

The range of communication gets limited as the wave cannot travel to a distance without getting distorted. Following are some of the advantages for implementing modulation in the communication systems. Antenna size gets reduced. No signal mixing occurs. Communication range increases. Multiplexing of signals occur. Adjustments in the bandwidth ...

Principles of Communication - Modulation - Tutorials Point

In any communication system, during the transmission of the signal, or while receiving the signal, some unwanted signal gets introduced into the communication, making it unpleasant for the receiver, questioning the quality of the communication. Such a disturbance is called as Noise. What is Noise?

Principles of Communication - Noise - Tutorials Point

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3.1 Detection in a ...

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