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Wireless Personal-Area Networks

(WPAN)- Uses low powered transmitters for a short-range network, usually 20 to 30 ft. (6 to 9 meters). Bluetooth and ZigBee based devices are commonly used in WPANs. WPANs are based on the 802.15

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transmitting information from one point to

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other, without using any connection like wires, cables or any physical medium.

Generally, in a communication system, information is transmitted from transmitter to receiver that are placed over a limited distance.

Wireless Communication: Introduction,

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Types and Applications

Although wireless networking began to penetrate the market in the 1990s, the technology has actually been around since the 1800s. A musician and astronomer, Sir William Herschel (1738 to 1822) made...

Chapter 1: Introduction to Wireless

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Wireless Data Networks Each type of wireless data network operates on a specific set of radio frequencies. For example, most Wi-Fi networks operate in a special band of radio frequencies around 2.4 GHz that have been reserved in most

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INTRODUCTION TO WIRELESS NETWORKS

A wireless network is a flexible data communications system, which uses wireless media such as radio frequency

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technology to transmit and receive data over the air, minimizing the need for wired connections (What is Wireless LAN, White Paper).

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Introduction Wireless network access is no

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longer a “nice-to-have.” It is a critical element in all enterprise networks, whether by design, by extension, or by default. Office workers expect to have a wireless option as part of the overall network design.

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March 20, 2017 By Rosti Lemdiasov

Wireless power transfer (WPT) has
recently become a hot topic. The idea

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analog FM and FDMA. Given the rate of
digital signal processing advancements, 6

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Communication Systems speech coding
technology will increase the capacity to six
users per channel in the same 30 kHz

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bandwidth within a few years. A cellular system based on code division multiple access (CDMA) has been

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Course Description: There have been

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dramatic progresses in wireless power transfer (WPT) in terms of power level ($>50\text{kW}$); efficiency ($>90\%$), transfer distance ($>300\text{ mm}$) and misalignment tolerance ($>300\text{mm}$), thanks to optimized coil design, magnetic resonance tuning ability and soft switching of power converters employed in the WTP systems.

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