

Guide To Wireless Communications Third Edition

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Radio Frequency Communications. © Cengage Learning 2014

Guide to Wireless Communications, Third Edition 2. Objectives.

- List the components of a radio system
- Describe the factors that affect the design of a radio system
- Discuss why standards are beneficial and list the major telecommunications standards organizations
- Explain the radio frequency spectrum.

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Guide to Wireless Communications, Third Edition 10 Bluetooth and Other Short-Range Wireless Technologies • Wireless HD and WiGig – Can transfer video and sound at speeds between 7 Gbps and 10 Gbps using Ultra Wide Band (UWB) – Distance: up to 10 meters (only in a room with few or no obstacles) – Greater the distance, the slower the ...

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Guide to Wireless Communications, Third Edition 10 Access

Points • The range of an AP is approximately 115 meters •

Dynamic rate selection – AP will automatically select the highest possible data rate for transmission • Depending on the strength and quality of the signal • An AP can generally support over 100 users

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Learning 2014 RFID Tags • Basic types of tags – Passive tags

(most common type) • They are small, can be produced in large quantities at low cost, and do not require battery power • Use

the electromagnetic energy in the RF waves – Active tags • Equipped with a battery

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3. Guide to Wireless Communications, Third Edition 5© Cengage Learning 2014. Figure 4-1 Linear vs. logarithmic. © Cengage

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6. Decibel.)Bd (lebi•Dce. – Ratio between two signal levels –
Makes it much simpler to express and calculate power gain or
loss.

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Learning 2014 How Cellular Telephony Works • Steps to receive
a call – Cell phone listens for the SID being transmitted by the
base station on the control channel – Phone compares SID with
its programmed SID • If they match, phone is in a network
owned by carrier

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Light • Advantages – It does not interfere with other types of
communication signals – It is not affected by other signals
(except light) – Infrared light does not penetrate walls • Signals
are kept inside a room • Limitations – Lack of mobility – Range of
coverage

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Learning 2014 Guide to Wireless Communications, Third Edition
16 WirelessHD and 802.15.3 MAC layer • Piconet coordinator
(PNC) – Role assumed by the first device in the area – Provides
all of the basic communications timing in a piconet – PNC sends
a beacon

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Learn about the most popular wireless data communications
technologies in use today as GUIDE TO WIRELESS
COMMUNICATIONS, 4E examines Bluetooth, ZigBee, Wi-Fi,
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10. a signal in which the intensity (amplitude or voltage) varies continuously and smoothly over a period of time 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

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