

Guide To Wireless Communications Third Edition

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Guide To Wireless Communications Third

GUIDE TO WIRELESS COMMUNICATIONS, 3rd Edition examines the broad range of wireless communications technologies available beginning with the basics of radio frequency and wireless data transmission and progressing to the protocols and mechanisms that every wireless network technician should understand.

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Guide to Wireless Communications, Third Edition. Chapter 3 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.

Guide to Wireless Communications, Third Edition

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 ...

Guide to Wireless Communications, Third Edition

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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Guide to Wireless Communications, Third Edition 10 © Cengage 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 Learning 2014 Guide to Wireless Communications, Third Edition 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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Guide to Wireless Communications, Third Edition 13 © Cengage 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

Guide to Wireless Communications, Third Edition

Guide to Wireless Communications, Third Edition 11 Infrared 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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Guide to Wireless Communications, Third Edition 15 © Cengage 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

Guide to Wireless Communications, Third Edition

Learn about the most popular wireless data communications technologies in use today as GUIDE TO WIRELESS COMMUNICATIONS, 4E examines Bluetooth, ZigBee, Wi-Fi, cellular and satellite communications while providing a broad industry perspective. You develop a solid base of knowledge in Wireless Personal Area Networks (WPANs), Wireless Local Area ...

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Other regulatory restrictions 37 Guide to Wireless Communications, Third Edition Antenna Cables Most antennas are connected to the transmitter or receiver using coaxial cable Impedance Opposition to the flow of alternating current in a circuit Represented by the letter “Z” and measured in ohms Combination of resistance, inductance, and capacitance of the circuit Cable’s impedance must match that of the transmitter circuit as well as that of the antenna You must consider the signal loss ...

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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.

Guide to Wireless Communications 3rd Edition Olenewa Test ...

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