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What you need to know about one of the hottest and most promising technologies in wireless communications Owing to their ability to easily interconnect a wide range of devices, wireless mesh networks (WMNs) are attracting immense interest throughout the world. This book offers a clear, practical introduction to this rapidly growing field, providing engineers with the tools they need to start working on WiFi, WiMAX, or LTE multi-hop relay networks. The authors explain all technical concepts with a minimum of mathematics, incorporating numerous examples of user scenarios, deployable architectures, performance tips, and real-world implementations using readily available tools. The evolution of WMNs from IEEE wireless LAN to 4G radio technologies, various business aspects, and future directions are also explored. Coverage includes: . Architectural requirements for multi-hop and ad-hoc networking, with topics ranging from anonymity to searching. Key application areas in transportation, medicine, environmental protection, smart buildings, and more. A review of the application of mesh concepts to IEEE 802.11 WiFi wireless LAN technology. Mesh networking using IEEE 802.16 WiMAX radio access networks-presented here for the first time. Mesh and relay networking in LTE and LTE-Advanced technologies, including system architecture and design

issues WiFi, WiMAX, and LTE Multi-hop Mesh Networks is the ideal guide for engineers and researchers wishing to quickly get up to speed on the latest advances in mesh networking.

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