



Mobile WiMAX: Toward Broadband Wireless Metropolitan Area Networks

By Yan Zhang, Hsiao-Hwa Chen

Taylor & Francis Ltd. Hardback. Book Condition: new. BRAND NEW, Mobile WiMAX: Toward Broadband Wireless Metropolitan Area Networks, Yan Zhang, Hsiao-Hwa Chen, The Wireless Metropolitan Area Network (WirelessMAN) is a promising Broadband Wireless Access (BWA) technology that provides high-speed, high-bandwidth efficiency and high-capacity multimedia services for both residential and enterprise applications. Mobile WiMAX: Toward Broadband Wireless Metropolitan Area Networks examines the basic concepts, recent advances, and latest standard specifications pertinent to WirelessMANs, placing emphasis on IEEE 802.16-based WiMAX. After introducing the basics of WirelessMAN, the book addresses topics in three accessible parts. The first part focuses on radio frequency (RF), signal processing, multiple in-multiple out (MIMO) technology, and identifying challenges and possible solutions in the physical layer. An examination of protocol issues follows, including those involving medium access control (MAC), quality of service (QoS) in point-to-multi-point (PMP) and mesh networks, cross layer optimization, mobility management, handoff in heterogeneous networks, energy management, and link adaptation mechanisms. The final part considers issues regarding security, economy, and system capacity in the WiMAX. Mobile WiMAX: Toward Broadband Wireless Metropolitan Area Networks is an important resource for those interested in understanding all aspects relevant to the technical, practical, economic, and policy issues concerning WirelessMANs. It...

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