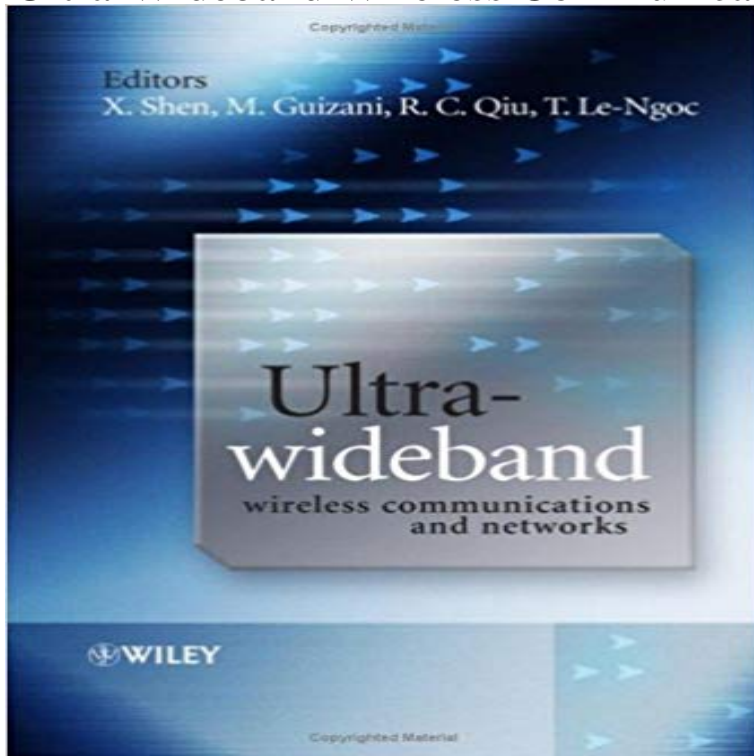


Ultra-Wideband Wireless Communications and Networks



Learn about Ultra-wideband (UWB) transmission - the most talked about application in wireless communications. UWB wireless communication is a revolutionary technology for transmitting large amounts of digital data over a wide spectrum of frequency bands with very low power for a short distance. This exciting new text covers the fundamental aspects of UWB wireless communications systems for short-range communications. It also focuses on more advanced information about networks and applications. Chapters include: Radio Propagation and Large Scale Variations, Pulse Propagation and Channel Modelling, MIMO (Multiple Input, Multiple Output) RF Subsystems and Ad Hoc Networks. Focuses on UWB wireless communications rather than UWB radar, which has been covered before. Provides long and short-term academic and technological value. Teaches readers the fundamentals, challenges and up-to-date technical processes in this field.

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