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Nota di contenuto	Introduction / Robert Caiming Qiu, Xuemin (Sherman) Shen, Mohsen Guizani, Tho Le-Ngoc -- Modulation and signal detection in UWB / Uzoma A. Onunkwo, Ye (Geoffrey) Li -- UWB pulse propagation and detection / Robert Caiming Qiu -- Timing synchrononization for UWB impulse radios / Zhi Tian, Georgios B. Giannakis -- Error performance of pulsed ultra-wideband systems in indooor environments / Huaping Liu -- Mixed-signal ultra-wideband communications receivers / Sebastian Hoyos, Brian M. Sadler -- Trends in ultra wideband transceiver design / Zhengyuan Xu -- UWB MAC and ad hoc networks / Zihua Guo, Richard Yao -- Radio resource management for ultra-wideband communications / Xuemin (Sherman) Shen, Weihua Zhuang, Hai Jiang, Jun Cai -- Pulsed UWB interference to narrowband receivers / Jay E. Padgett -- Digital-carrier spreading codes for baseband UWB multiaccess / Liuqing Yang, Geogios B. Giannakis -- Localization / Kegen Yu, Harri Saarnisaari, Jean-Philippe Montillet, Alberto Rabbachin,

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Sommario/riassunto

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 Model
