

Ultra-wideband radio frequency identification systems

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Abstrak

Ultra-wideband radio frequency identification systems describes the essentials of radio frequency identification systems as well as their target markets. The authors provide a study of commercially available RFID systems and characterizes their performance in terms of read range and reliability in the presence of conductive and dielectric materials.

The capabilities and limitations of some commercial RFID systems are reported followed by comprehensive discussions of the advantages and challenges of using ultra-wideband technology for tag/reader communications. The book presents practical aspects of UWB RFID system such as : pulse generation, remote powering, tag and reader antenna design, as well as special applications of UWB RFIDs.