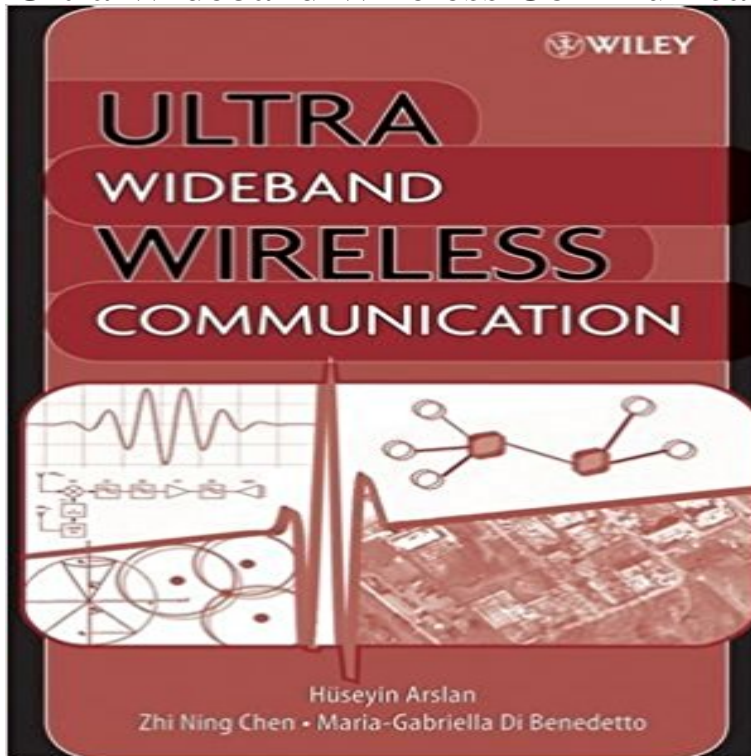


Ultra Wideband Wireless Communication



An international panel of experts provide major research issues and a self-contained, rapid introduction to the theory and application of UWB. This book delivers end-to-end coverage of recent advances in both the theory and practical design of ultra wideband (UWB) communication networks. Contributions offer a worldwide perspective on new and emerging applications, including WPAN, sensor and ad hoc networks, wireless telemetry, and telemedicine. The book explores issues related to the physical layer, medium access layer, and networking layer. Following an introductory chapter, the book explores three core areas: * Analysis of physical layer and technology issues * System design elements, including channel modeling, coexistence, and interference mitigation and control * Review of MAC and network layer issues, up to the application. Case studies present examples such as network and transceiver design, assisting the reader in understanding the application of theory to real-world tasks. Ultra Wideband Wireless Communication enables technical professionals, graduate students, engineers, scientists, and academic and professional researchers in mobile and wireless communications to become conversant with the latest theory and applications by offering a survey of all important topics in the field. It also serves as an advanced mathematical treatise; however, the book is organized to allow non-technical readers to bypass the mathematical treatments and still gain an excellent understanding of both theory and practice.

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There is 7,500 MHz of spectrum for unlicensed use. **Ultra-wideband - Wikipedia** UWB (Ultra Wideband) Wireless Communications: UWB Printed Antenna Design InTechOpen, Published on: 2010-01-01. Authors: Abdallah Alshehri. **Ultra Wide Band, UWB Technology ::** Ultra wideband (also known as UWB or as digital pulse wireless) is a wireless the Federal Communications Commission approved the commercial use of ultra **What is Ultra-Wide Band Wireless Technology? - Lifewire** An international panel of experts provide major research issues and a self-contained, rapid introduction to the theory and application of UWB This book delivers **Ultra-Wideband Communication Systems: Technology and** Ultra Wide Band Wireless Communications : A Tutorial. Maria-Gabriella Di Benedetto and Branimir R. Vojcic. 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