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Sommario/riassunto

Up-to-date coverage of the cutting-edge research on UWB Systems with Multiple Antennas In this book, the authors investigate the benefits of combining UWB and MIMO technologies; highlighting five aspects of this promising research field: channel capacity, space-time coding, beamforming and localization, time-reversal transmission, and UWB-MIMO relay. The book presents a systematic and in-depth discussion for each of the hot topics, providing an insight into the cutting-edge research currently undertaken. It is expected that the ideas and approaches illustrated in this book will inspire sparks for the emerging technologies in short-range high data-rate wireless communications and other related applications. Key Features: *Provides a thorough coverage combining the UWB and MIMO, outlining the opportunities and benefits created by the combination of these technologies *Highlights five aspects of this promising research field: channel capacity, space-time coding, beamforming and localization, time-reversal transmission, and UWB-MIMO relay *Covers UWB-MIMO channel measurement and models This book will serve as an invaluable reference for academic and professional researchers in wireless communications, and graduate students. Engineers and technical

professionals will also find the book insightful.
