

1. Record Nr.	UNINA9910140607303321
Autore	Kaiser Thomas
Titolo	Ultra wideband systems with MIMO // Thomas Kaiser and Feng Zheng
Pubbl/distr/stampa	Chichester, West Sussex, U.K. ; , : Wiley, , 2010 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2010]
ISBN	1-282-55151-5 9786612551512 0-470-74001-9 0-470-74000-0
Descrizione fisica	1 online resource (274 p.)
Altri autori (Persone)	ZhengFeng
Disciplina	621.382
Soggetti	Broadband communication systems MIMO systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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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.

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