MIMO Wireless Networks. Edition No. 2

Description: This book is unique in presenting channels, techniques and standards for the next generation of MIMO wireless networks. Through a unified framework, it emphasizes how propagation mechanisms impact the system performance under realistic power constraints. Combining a solid mathematical analysis with a physical and intuitive approach to space-time signal processing, the book progressively derives innovative designs for space-time coding and precoding as well as multi-user and multi-cell techniques, taking into consideration that MIMO channels are often far from ideal. Reflecting developments since the first edition was published, this book has been thoroughly revised, and now includes new sections and five new chapters, respectively dealing with receiver design, multi-user MIMO, multi-cell MIMO, MIMO implementation in standards, and MIMO system-level evaluation.

Contents: Chapter 1 Introduction to multi-antenna communications Chapter 2 From Multi-Dimensional Propagation to Multi-Link MIMO Channels Chapter 3 Analytical MIMO Channel Representations For System Design Chapter 4 Physical MIMO Channel Models For Performance Simulation Chapter 5 Capacity of single-link MIMO channels Chapter 6 Space-time coding over i.i.d. Rayleigh flat fading channels Chapter 7 MIMO Receiver Design: Detection and Channel Estimation Chapter 8 Error probability in real-world MIMO channels Chapter 9 Space-time coding over real-world MIMO channels with no transmit channel knowledge Chapter 10 Space-time coding with partial transmit channel knowledge Chapter 11 Space-time coding for frequency selective channels Chapter 12 Multi-user MIMO Chapter 13 Multi-Cell MIMO Chapter 14 MIMO in LTE, LTE-Advanced and WiMAX Chapter 15 MIMO-OFDMA System Level Evaluation Appendix A Useful Mathematical and Matrix Properties Appendix B Complex Gaussian Random variables and matrices Appendix C Antenna Coupling Model Appendix D Derivation of the Average Pairwise Error Probability

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