1. Record Nr. UNINA9910876511103321 Autore Lau Vincent K. N Titolo Channel-adaptive technologies and cross-layer designs for wireless systems with multiple antennas: theory and applications // Vincent K. N. Lau, Yu Kwong Ricky Kwok Hoboken, N.J., : John Wiley, c2006 Pubbl/distr/stampa **ISBN** 1-280-34358-3 9786610343584 0-470-36032-1 0-471-77406-5 0-471-77405-7 Descrizione fisica 1 online resource (544 p.) Collana Wiley series in telecommunications and signal processing Altri autori (Persone) KwokYu-Kwong Ricky Disciplina 621.3845/6 Soggetti Wireless communication systems - Design and construction Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 493-501) and index. Nota di contenuto Channel-Adaptive Technologies and Cross-Layer Designs for Wireless Systems with Multiple Antennas; CONTENTS; List of Figures; List of Tables; Preface; Acknowledgments; PART 1 THEORY; Chapter 1 Basic Concepts in Wireless Communications; 1.1 Overview; 1.2 Wireless Channel Models; 1.2.1 AWGN Channel Model; 1.2.2 Linear Time-Varying Deterministic Spatial Channel: 1.2.3 The Random Channels: 1.2.4 Frequency-Flat Fading Channels; 1.2.5 Frequency-Selective Fading Channels; 1.3 Equivalence of Continuous-Time and Discrete-Time Models; 1.3.1 Concepts of Signal Space; 1.3.2 Sufficient Statistics 1.3.3 Discrete-Time Signal Model-Flat Fading1.3.4 Discrete-Time Channel Model-Frequency-Selective Fading; 1.4 Fundamentals of

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## Sommario/riassunto

This innovative book sets forth two promising wireless approaches that support high-quality, high-speed data and multimedia service-multiple antenna technologies and cross layer transmitter adaptation designs-while highlighting the relationships and interactions between them. The latest advanced technologies of channel adaptation techniques for wireless communication systems with multiple antennas are thoroughly investigated. The book is divided into three parts, first giving readers a good foundation in underlying theory, then exploring applications as well as advanced topics:\* Par