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Nota di cont	tenuto	""Cover""; ""Contents""; ""Authors Biography""; ""List of Abbreviations""; ""1 Introduction"; ""2 General Overview of Relay Techniques""; ""2.1 Relay Based Communications""; ""2.1.1 Relaying techniques""; ""2.2 Amplify and Forward Relay Technique""; ""2.2.1 AF with Fixed Gain""; ""2.2.2 AF with Variable Gain""; ""2.3 Decode and Forward Relay Technique""; ""2.4 Performance of AF and DF Relay Systems""; ""3 OFDM relay systems""; ""3.1 Basic OFDM Principles""; ""3.1.1 OFDM System Structure"; ""3.1.2 Bene.ts and Shortcomings of OFDM""; ""3.1.3 Implementation of OFDM and Perspectives"" ""3.2 Overview OF OFDM Relay Systems"""3.3 OFDM Relay Systems with Subcarrier Permutation"; ""3.3.1 Capacity Enhancement in OFDM Relay Systems"; ""3.2.2 BER Performance Improvement in OFDM Relay Systems"; ""4 Relay Stations in Wireless Cellular Networks"; ""4.1 OFDM Relay Systems in WWAN""; ""4.2 Relay Speci.cations in IEEE 802.16J Standard""; ""4.3 Relay Solutions in IMT-Advanced Relay Systems"; ""4.3.1 Relay Speci.cations in LTE-Advanced Systems"; ""4.3.2 Relay Speci.cations in IEEE 802.16m Standard""; ""4.3.3 Comparisons of IMT-Advanced Relay Systems"

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	""5 Performance of OFDM AF FG Relay Systems with Subcarrier Permutation""""5.1 System Description""; ""5.2 Statistics of the End-To- End SNR""; ""5.2.1 Ordered Statistics of Random Variables""; ""5.2.2 PDF of SNR for BTW SCP Scheme""; ""5.2.3 PDF of SNR for BTB SCP Scheme""; ""5.2.4 MGF of SNR for BTB SCP Scheme""; ""5.2.5 MGF of SNR for BTB SCP Scheme"; ""5.3 BER Performance of OFDM AF FG Relay Systems with SCP""; ""5.3.1 BER of DPSK Modulated OFDM AF FG Relay Systems with SCP""; ""5.3.2 BER of BPSK Modulated OFDM AF FG Relay Systems with SCP"" ""5.3.3 BER of m-QAM Modulated OFDM AF FG Relay Systems with
	SCP""""5.4 Ergodic Capacity of OFDM AF FG Relay Systems with SCP""; ""5.5 Performance Analysis of OFDM AF FG Relay Systems with SCP""; ""5.5.1 BER Performance Analysis of DPSK Modulated OFDM AF FG Relay Systems with SCP""; ""5.5.2 BER Performance Analysis of BPSK Modulated OFDM AF FG Relay Systems with SCP""; ""5.5.3 BER Performance Analysis of 4-QAM Modulated OFDM AF FG Relay Systems with SCP""; ""5.5.4 Ergodic Capacity Analysis of OFDM AF FG Relay Systems with SCP""
	""6 Performance of OFDM AF VG Relay Systems with Subcarrier Permutation""""6.1 System Description""; ""6.2 Statiscs of the End-to- End SNR""; ""6.2.1 Harmonic Mean of Random Variables""; ""6.2.2 PDF of SNR for BTW SCP Scheme""; ""6.2.3 PDF of SNR for BTB SCP Scheme""; ""6.2.4 MGF of SNR for BTW SCP Scheme""; ""6.2.5 MGF of SNR for BTB SCP Scheme""; ""6.3 BER Performance of OFDM AF VG Relay Systems with SCP""; ""6.3.1 BER Performance of DPSK Modulated OFDM AF VG Relay Systems with SCP""; ""6.3.2 BER Performance of BPSK Modulated OFDM AF VG Relay Systems with SCP"" ""6.4 Ergodic Capacity of OFDM AF VG Relay Systems with SCP""
Sommario/riassunto	The book presents a comprehensive research results in analyzing behavior and performance of the OFDM based relay systems with SCP. Dual-hop relay scenario with three communication terminals, and no direct link between the source (S) and the destination (D) has been analyzed, as it is compliant with the accepted solutions.