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Bit-based STBC-SP Schemes -- 3.6 Chapter Conclusions -- 3.7 Chapter Summary -- 4 Turbo Detection of Channel-coded DSTBC-SP Schemes -- 4.1 Introduction -- 4.2 Differential STBC using SP Modulation -- 4.3 Bit-based RSC-coded Turbo-detected DSTBC-SP Scheme -- 4.4 Chapter Conclusions -- 4.5 Chapter Summary -- 5 Three-stage Turbo-detected STBC-SP Schemes -- 5.1 Introduction -- 5.2 System Overview -- 5.3 EXIT Chart Analysis -- 5.4 Maximum Achievable Bandwidth Efficiency -- 5.5 Performance of Three-stage Turbo-detected STBC-SP Schemes -- 5.6 Chapter Conclusions -- 5.7 Chapter Summary -- 6 Symbol-based Channel-coded STBC-SP Schemes -- 6.1 Introduction -- 6.2 System Overview -- 6.3 Symbol-based Iterative Decoding -- 6.4 Non-binary EXIT Chart Analysis -- 6.5 Performance of Bit-based and Symbol-based LDPC-coded STBC-SP Schemes. 6.6 Chapter Conclusions -- 6.7 Chapter Summary -- Part II Coherent Versus Differential Turbo Detection of Single-user and Cooperative MIMOs -- List of Symbols in Part II -- 7 Linear Dispersion Codes: An EXIT Chart Perspective -- 7.1 Introduction and Outline -- 7.2 Linear Dispersion Codes -- 7.3 Link Between STBCs and LDCs -- 7.4 EXIT-chart-based Design of LDCs -- 7.5 EXIT-chart-based Design of IR-PLDCs -- 7.6 Conclusion -- 8 Differential Space-Time Block Codes: A Universal Approach -- 8.1 Introduction and Outline -- 8.2 System Model -- 8.3 DOSTBCs -- 8.4 DLDCs -- 8.5 RSC-coded Precoder-aided DOSTBCs -- 8.6 IRCC-coded Precoder-aided DLDCs -- 8.7 Conclusion -- 9 Cooperative Space-Time Block Codes -- 9.1 Introduction and Outline -- 9.2 Twin-layer CLDCs -- 9.3 IRCC-coded Precoder-aided CLDCs -- 9.4 Conclusion -- Part III Differential Turbo Detection of Multi-functional MIMO-aided Multi-user and Cooperative Systems -- List of Symbols in Part III -- 10 Differential Space-Time Spreading -- 10.1 Introduction -- 10.2 DPSK -- 10.3 DSTS Design Using Two Transmit Antennas -- 10.4 DSTS Design Using Four Transmit Antennas -- 10.5 Chapter Conclusions -- 10.6 Chapter Summary -- 11 Iterative Detection of Channel-coded DSTS Schemes -- 11.1 Introduction -- 11.2 Iterative Detection of RSC-coded DSTS Schemes -- 11.3 Iterative Detection of RSC-coded and Unity-rate Precoded Four-antenna-aided DSTS-SP System -- 11.4 Chapter Conclusions -- 11.5 Chapter Summary -- 12 Adaptive DSTS-assisted Iteratively Detected SP Modulation -- 12.1 Introduction -- 12.2 System Overview -- 12.3 Adaptive DSTS-assisted SP Modulation -- 12.4 VSF-based Adaptive Rate DSTS -- 12.5 Variable-code-rate Iteratively Detected DSTS-SP System -- 12.6 Results and Discussion -- 12.7 Chapter Conclusion and Summary -- 13 Layered Steered Space-Time Codes -- 13.1 Introduction -- 13.2 LSSTCs -- 13.3 Capacity of LSSTCs -- 13.4 Iterative Detection and EXIT Chart Analysis -- 13.5 Results and Discussion -- 13.6 Chapter Conclusions -- 13.7 Chapter Summary. 14 DL LSSTS-aided Generalized MC DS-CDMA -- 14.1 Introduction -- 14.2 LSSTS-aided Generalized MCDS-CDMA -- 14.3 Increasing the Number of Users by Employing TD and FD Spreading -- 14.4 Iterative Detection and EXIT Chart Analysis -- 14.5 Results and Discussion -- 14.6 Chapter Conclusions -- 14.7 Chapter Summary -- 15 Distributed Turbo Coding -- 15.1 Introduction -- 15.2 Background of Cooperative Communications -- 15.3 DTC -- 15.4 Results and Discussion -- 15.5 Chapter Conclusions -- 15.6 Chapter Summary -- 16 Conclusions and Future Research -- 16.1 Summary and Conclusions -- 16.2 Future Research Ideas -- 16.3 Closing Remarks -- A Gray Mapping and AGM Schemes for SP Modulation of Size $L=16$ -- B EXIT Charts of Various Bit-based Turbo-detected STBC-SP Schemes -- C EXIT Charts of Various Bit-based Turbo-detected DSTBC-SP Schemes -- D LDCs? ? for QPSK Modulation -- E DLDCs? ? for 2PAM Modulation -- F CLDCs? ?1

and β for BPSK Modulation -- G Weighting Coefficient Vectors e and f
-- H Gray Mapping and AGM Schemes for SP Modulation of Size $L=16$
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Sommario/riassunto

Providing an all-encompassing self-contained treatment of Near-Capacity Multi-Functional MIMO Systems, the book starts by categorizing the family of Multiple-Input Multiple-Output (MIMO) schemes as diversity techniques, multiplexing schemes, multiple access arrangements and beam-forming techniques. Sophisticated coherent and low-complexity non-coherent MIMO receivers dispensing with channel estimation are considered in both classic and cooperation-aided scenarios. It is demonstrated that in the presence of correlated shadow-fading, cooperation-assisted systems may be expected to outperform their non-cooperative counterparts. The book contains a 100-page chapter on the unified treatment of all block codes in the context of high-flexibility, cutting-edge irregular Linear Dispersion Codes (LDC), which approach the MIMO-capacity. The majority of the book's solutions are in the optimum sphere-packing framework. . Sophisticated amalgam of five year's near-capacity MIMO research. Detailed examination of wireless landscape, including the fields of channel coding, spacetime coding and turbo detection techniques. Novel tool of Extrinsic Information Transfer Charts (EXIT) used to address recent developments. Material presented logically, allowing advanced readers to turn directly to any specific chapter of interest. One of the only books to cover these subjects, giving equal weighting to each.

2. Record Nr.	UNINA9910131907403321
Autore	Christiane Volant (dir.)
Titolo	L'information dans les organisations : dynamique et complexité
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Sommario/riassunto	Le système d'information devient le pivot du pilotage des organisations confrontées à un environnement complexe. La dimension informationnelle des différentes activités, le caractère stratégique de l'information, la prise en compte du jeu des acteurs, la question centrale de la mémoire des organisations, l'impact du numérique... Autant de facteurs qui incitent les chercheurs en sciences de l'information et de la communication à développer les recherches dans ce contexte managérial. Cet ouvrage rassemble les textes issus du colloque international qui a permis d'alimenter la réflexion scientifique sur l'information dans les organisations. Il aborde des questions relatives : - au lien information-organisation, - aux systèmes d'information, - à la représentation des connaissances, - à la construction collective du savoir et au travail coopératif, - à la compréhension du besoin informationnel et à la modélisation des pratiques, - à l'impact du numérique et à la « mémoire sociale ». La diversité des approches proposées, le réel recul critique exercé et la réflexion scientifique engagée permettent de contribuer de façon originale aux questionnements en cours.

