

About the Authors.

Other Wiley and IEEE Press Books on Related Topics.

Acknowledgments.

1. Introduction To Intelligent Broadband Wireless Transceivers.

I: Multi-User Detection for Adaptive Single-Carrier CDMA.

List of Symbols in Part I.

2. CDMA Overview.

3. Joint Detection of CDMA Signals.

4. Adaptive-Rate Detection Aided CDMA.

5. Adaptive-Rate Interference Cancellation Assisted CDMA.

6. Iterative PIC Using Turbo Codes, LDPC Codes, TCM and TTCM.

7. Blind Per-Survivor Processing-Aided CDMA.

8. Space-Time Spreading Aided Single-Carrier Wideband CDMA.

II: Genetic Algorithm Assisted Multiuser Detection.

List of Symbols in Part II.

9. Overview of Genetic Algorithms used for Multi-user Detection.

10. GA-Assisted Multi-user Detection for Synchronous CDMA.

11. Joint GA-Assisted Channel Estimation and Symbol Detection.

12. GA-Assisted, Antenna Diversity-Aided Multi-user Detection.

13. GA-Assisted Multi-user Detection for Asynchronous CDMA.

14. GA Assisted Multi-user Detection for MC-CDMA.

III: M-ary Single-Carrier CDMA.

15. Non-Coherent M -ary Orthogonal Modulation in CDMA.

16. RS Coded Non-Coherent M -ary Orthogonal Modulation in CDMA.

17. Residue Number System Arithmetic.

18. Redundant Residue Number System Coded M -ary DS-CDMA.

IV: Multi-Carrier CDMA.

19. Overview of Multicarrier CDMA.

20. Space-Time Spreading-Assisted Broadband Multicarrier DS-CDMA.

21. Initial Synchronization of DS-CDMA and MC-CDMA Systems.

V: Standards and Networking.

22. Third-Generation CDMA Systems.

23. Adaptive DS-CDMA Networking Using VSFs and Beamforming.

24. Book Summary and Conclusions.

A: Appendix to Chapter 15.

B: Appendix to Chapter 16.

C: Appendix to Chapter 18.

D: Appendix to Chapter 21.

Glossary.

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