



# SMART ANTENNAS, ELECTROMAGNETIC INTERFERENCE AND MICROWAVE ANTENNAS FOR WIRELESS COMMUNICATIONS [

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Monografía

This book covers all areas of smart antennas, electromagnetic interference, and microwave antennas for wireless communications. Smart antennas or adaptive antennas are multi-antenna components on one or both sides of a radio communication connection, combined with advanced signal processing algorithms. They've evolved into a critical technology for third-generation and beyond mobile communication systems to meet their lofty capacity and performance targets. It seems that a significant capacity gain is achievable, particularly if they are employed on both sides of the connection. There are several essential characteristics of these systems that need scientific and technical investigation. Included in the book are beamforming, massive MIMO, network MIMO, mmwave transmission, compressive sensing, MIMO radar, sensor networks, vehicle-to-vehicle communication, location, and machine learning

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**Contenido:** Cover -- Half-Title -- RIVER PUBLISHERS SERIES IN COMMUNICATIONS AND NETWORKING -- Title -- Copyrights page -- Contents -- Preface -- List of Contributors -- List of Figures -- List of Tables -- List of Abbreviations -- Chapter 1 Speech Signal Extraction from Transmitted Signal Using Multilevel Mixed Signal -- 1.1 Introduction -- 1.2 Literature Survey -- 1.2.1 The fast ICA algorithm revisited: Convergence analysis -- 1.2.2 FPGA implementation of IC algorithm for blind signal separation and noise cancelling -- 1.2.3 Subjective comparison and evaluation of speech enhancement algorithms 1.3 Proposed Systems -- 1.3.1 FASTICA using symmetric orthogonalization -- 1.3.2 FPGA implementation -- 1.4 Results and Discussion -- Output Waveform -- 1.5 Conclusion -- References -- Chapter 2 High Performance Fiber-Wireless Uplink for CDMA 5G Networks Communication -- 2.1 Introduction -- 2.2 Proposed Method -- 2.2.1 OFDM -- 2.2.2 OFDMA -- 2.2.3 CDMA -- 2.2.4 Optical fiber channel -- 2.2.5 The disadvantages of the existing system -- 2.3 Results and Discussion -- 2.3.1 Inference 1 -- 2.3.2 Inference 2 -- 2.3.3 Inference 3 -- 2.3.4 Inference 4 -- 2.3.5 Inference 5 -- 2.3.6 Inference 6 2.3.7 Inference 7 -- 2.4 Conclusion -- References -- Chapter 3 Improving the Performance of Cooperative Transmission Protocol Using Bidirectional Relays and Multi User Detection -- 3.1 Introduction -- 3.2 Components of Communication System -- 3.3 Proposed System -- 3.4 System Design and Development -- 3.4.1 Input design -- 3.4.2 Feasibility analysis -- 3.4.2.1 Operational feasibility -- 3.4.2.2 Technical feasibility -- 3.4.2.3 Economical feasibility -- 3.4.2.4 Project modules -- 3.5 Output Design -- 3.5.1 Animator output -- 3.5.2 Initialization of nodes -- 3.5.3 Node 1 starts transmitting data 3.5.4 Finding shortest path -- 3.5.5 Transmission of data through relay node -- 3.5.6 Node 8 starts transmitting data -- 3.5.7 Loss of packets -- 3.5.8 Transmissions of data from node 7 to node 6 -- 3.5.9 Transmission of data from node 2 to node 4 -- 3.5.10 Transmission of data bidirectionally -- 3.5.11 Completion of transmission from node 8 to 0 -- 3.5.12 Coverage provided by dynamic base station -- 3.5.13 Retransmission of dropped packets -- 3.5.14 Reception of acknowledgement -- 3.5.15 X graph for lifetime -- 3.5.16 X graph for output -- 3.6 Conclusion -- References Chapter 4 Joint Relay-source Escalation for SINR Maximization in Multi Relay Networks and Multi Antenna -- 4.1 Main Text -- 4.2 Proposed System -- 4.2.1 System model -- 4.2.2 SINR maximization under relay transmit power and source constraints -- 4.2.3 Source-relay transmit power minimization under QoS constraints -- 4.2.4 Computation of relay precoder -- 4.2.5 Feasibility of the problem -- 4.3 Advantage -- 4.4 Application -- 4.5 Result and Discussion -- 4.5.1 Tools used -- 4.5.2 Simulated results -- 4.6 Conclusion -- References

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