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# Implementation of Non-Linear Adaptive Equalizer for MIMO-OFDM in Wireless Communication

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### Abstract

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### Document Sections

- I. System Model
- II. Existing Techniques
- III. Proposed Technique
- IV. Simulation Results
- V. Conclusion

### Metadata

**Abstract:** Wireless communication is playing a major role in our day to day life due to its high demand it is required to provide information at high data rate. Due to which the channel would face impairments like fading and interference. The two technologies that have got more attention for above problems are multiple input multiple output (MIMO) and orthogonal frequency division multiplexing (OFDM). OFDM has been considered as one of the multicarrier modulation techniques. MIMO system uses more than one antenna at each end of the transmitter and receiver. These two techniques are combined to upgrade the performance. Equalizer is the device used to reverse the distortion caused by the signal transmitted through a channel. In this, adaptive equalizer algorithms are used. LMS algorithm has low computational complexity but the disadvantage is its convergence rate is very slow. To overcome that, RIS algorithm is used and it significantly improves the convergence. Better Mean Square Error (MSE) and Bit Error Rate (BER) can also be obtained.

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