

Research on predistortion technique in digital communications

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Abstract: In the context of modern information technology development, the processing and transmission of digital data increasingly demand technically efficient solutions. This topic focuses on the important issue of pre-distortion technique in digital communications to improve signal quality through distortion adjustment. The objective is to build and deploy a system to control and minimize pre-distortion phenomena by combining theoretical research with experimentation. Through this, the project is expected to make a significant contribution to enhancing digital signal transmission performance in modern telecommunications systems.

Keywords: pre-distortion technique, digital signal processing, distortion adjustment, telecommunications technology application