

Research on modulation techniques used in WIMAX

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Abstract: This topic focuses on researching and analyzing modulation techniques applied in WIMAX wireless network systems. The context of the topic stems from the need to enhance data transmission performance in modern mobile platforms. The objective of the project is to evaluate the effectiveness of conventional modulation methods and propose improvements to optimize the data transmission process. The approach includes both theoretical and experimental research, with plans to deploy a test model on an existing WIMAX platform to verify effectiveness. The expected result is to provide the telecommunications industry with new solutions to improve the quality of wireless data transmission services.

Keywords: WIMAX, modulation technique, data transmission, wireless network, optimization