

OFDM technique and its application in digital terrestrial television

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Abstract: This topic focuses on researching the Orthogonal Frequency Division Multiplexing (OFDM) technique, an important method in parallel data transmission. The context of the topic is defined by the necessity of OFDM in digital terrestrial television systems due to its high noise immunity and bandwidth resolution. The objective is to build a digital terrestrial television system using OFDM to optimize transmission performance. The research methodology includes an overview of OFDM theory, designing an experimental model, and implementing practical applications. The expected results will contribute to improving the quality of digital terrestrial television services.

Keywords: OFDM, digital terrestrial television, transmission technique, television system, transmission efficiency