

Research on modulation techniques for digital terrestrial television

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Abstract: This topic focuses on the necessity of improving digital terrestrial television technology to meet the increasing demand for image quality and transmission performance. The objective is to identify and evaluate modern modulation techniques, while conducting experimental implementation to build an optimal digital television system. The research method includes theoretical analysis combined with practical testing on existing equipment platforms. The expected results will provide feasible solutions for upgrading terrestrial television systems, contributing to improving the viewing experience of the public.

Keywords: Modulation technique, Digital terrestrial television, System upgrade