

# Signal distortion in digital information systems

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**Abstract:** Research on signal distortion in digital information systems aims to meet the increasing demands for transmission quality and data processing. The topic proposes a solution to improve system accuracy by applying a correction algorithm to address signal distortion issues in digital information transmission and processing. The study seeks to combine theoretical analysis with experimental verification to explore the impact of signal distortion in digital systems and propose effective correction strategies. The ultimate goal is to provide scientific basis and technical support for enhancing data transmission quality and processing efficiency.

**Keywords:** Signal distortion, digital information transmission, error correction algorithm, data processing, transmission quality