

Thesis Title	The Error Performance of Cable TV Network in the Presence of Impulse Noise on the Return Paths
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ABSTRACT

This thesis describes the effect of impulse noise on the return paths of a cable TV network, in term of Bit Error Rate. Noise from real cable TV is collected. The return path noise is analyzed, with respect to the impulse noise class A model. The modulation and de modulation method according to the DOCSIS (Data Over Cable Service Interface Specification) and IEEE 802.14 standard for return path data communication. The result of error performance under the influence of impulse noise at any times and channels in the cable TV network which can be used for future system development to increase the performance of the network.