

عنوان مقاله:

Measurement of Distortion in Multi-tone Modulation Fiber-based analog CATV Transmission System

محل انتشار:

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خلاصه مقاله:

This paper analyzes analog CATV transmission systems. Here it is considered distortions such as composite second order, composite triple beat, and intermodulation distortion. In fiber-based analog CATV transmission systems, there is usually one wavelength used for the signal transmission with multiple analog RF channels modulated onto it. While BER is the most common performance metric in a digital transmission system, measurements of distortions are the critical metrics in an analog transmission system. These results can be produced through simulations of: 1- A Two tones direct modulated analog transmission system 2- A Two tones externally modulated analog transmission system 3- Three frequencies directly modulated together 4- And 20-channel analog CATV system which is implemented in this paper in addition to analyzing the results

کلمات کلیدی:

Fiber-based CATV Transmission System, Intermodulation distortion

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