

Abstracts

The Relationship Between Non-Linearity Measurements and Performance in CATV Systems

K.A. Simons. "The Relationship Between Non-Linearity Measurements and Performance in CATV Systems." 1973 G-MTT International Microwave Symposium Digest of Technical Papers 73.1 (1973 [MWSYM]): 112-112.

The signals carried by a CATV system generally consist of a great many (20 or more) amplitude-modulated picture carriers, each accompanied by its frequency-modulated sound carrier. In a large system, these signals pass through as many as 50 amplifiers in tandem. To avoid appreciable degradation of the received picture, distortion products must be kept 50 to 60 dB below the picture signal for the entire system, which implies distortion levels 90 to 100 dB down in the individual amplifiers.

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