Abstracts

A Wave Approach to the Noise Properties of Linear Microwave Devices

R.P. Meys. "A Wave Approach to the Noise Properties of Linear Microwave Devices." 1978 Transactions on Microwave Theory and Techniques 26.1 (Jan. 1978 [T-MTT]): 34-37.

Noise temperature or noise factor are important parameters for many microwave devices. Their dependence on source characteristics is classically established using low-frequency concepts such as impedance, admittance, voltage, and current sources. This paper presents a derivation of the noise properties of linear two-ports in terms of noise waves, which leads to a convenient measurement method in distributed systems.

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