

Abstracts

On the Utility and Measurement of Voltage Probability Density of Wide-Band Microwave Noise (Correspondence)

A.H. Gottfried and J.J. Tancredi. "On the Utility and Measurement of Voltage Probability Density of Wide-Band Microwave Noise (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.9 (Sep. 1968 [T-MTT] (Special Issue on Noise)): 795-797.

A method is described for measuring the probability density function (PDF) of wide-band microwave noise. A sampling technique is used to divide down the spectrum bandwidth of microwave noise from the order of several GHz to several kHz. It is shown that the divided-down spectrum noise has the same PDF as the original microwave noise. The former has a spectrum within the frequency range of available pulse height analyzers, so that the PDF can be measured with a pulse height analyzer in conjunction with a pulse counter.

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