

Abstracts

On an Automatic System for Simultaneous Measurement of Amplitude and Phase of Millimeter-Wave Fields (Short Papers)

R.J. King. "On an Automatic System for Simultaneous Measurement of Amplitude and Phase of Millimeter-Wave Fields (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.1 (Jan. 1976 [T-MTT]): 48-50.

Suggestions are given for improving the vibrating dipole technique for measuring the phase and amplitude of millimeterwave electric fields in free space. It is shown that the system can be simplified, at the same time reducing certain measurement errors and increasing the system's sensitivity and dynamic range. It is found that significant errors can result if the field being measured varies appreciably in amplitude, and/or if the phase does not vary linearly with position over the dipole's excursions.

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