

Abstracts

An Automatic Gain Control System for Microwaves

J.P. Vinding. "An Automatic Gain Control System for Microwaves." 1956 Transactions on Microwave Theory and Techniques 4.4 (Oct. 1956 [T-MTT]): 244-245.

This paper describes a system which can keep the power level in a microwave set-up constant with good accuracy in spite of variations of the input power level. The system uses a variable attenuator based on the Faraday rotation in magnetized ferrite and thereby achieves a frequency response up to about 500 cps with the present equipment and much better potential response. Variations in input power are reduced by a factor varying from 10 to 400 depending on available power and on the detector used to detect the output power.

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