

# Abstracts

## **Feedback Control Analysis of Microwave Oscillator Stabilization with a Transmission Cavity**

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*J.G. Ondria and T.R. Turlington. "Feedback Control Analysis of Microwave Oscillator Stabilization with a Transmission Cavity." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 166-169.*

This paper shows cavity stabilization of microwave oscillators can be characterized by a Type O (AFC) servomechanism. Stabilized phase noise spectral density can now be analyzed as a function of modulation rate. Measured phase noise data of stabilized IMPATT and Gunn oscillators are compared with the new theory.

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