

Abstracts

Predicting the Onset of Instabilities in Frequency Multipliers

S. Basu, S.A. Maas and T. Itoh. "Predicting the Onset of Instabilities in Frequency Multipliers." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1511-1514.

Microwave multipliers are notoriously unstable with input power, bias and load variations. In this paper, we predict the onset of a chaotic type of instability using the Hopf bifurcation concept as the input power level is increased. The measurement and the predicted theoretical results are in agreement to within 1.5 dB.

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