Abstracts

New Approach to GaAs MESFET Analog Frequency Dividers with Low Threshold Input Power and High Conversion Gain (1992 Vol. I [MWSYM])

H. Amine, O. Llopis, M. Gayral, J. Graffeuil and J.F. Sautereau. "New Approach to GaAs MESFET Analog Frequency Dividers with Low Threshold Input Power and High Conversion Gain (1992 Vol. I [MWSYM])." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 285-288.

A new approach to frequency dividers is proposed based on the nonlinear feedback control of MESFET in forced oscillation mode. The input signal is used to control the FET gain, imposing oscillation conditions. Firstly, this approach is tested by time domain simulation. An experimental MESFET analog frequency divider is then achieved.

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