

Abstracts

Microwave Signal Processing by Amplified Ferrimagnetic Echo

R.M. Hill, D.E. Kaplan, G.F. Hermann and S.K. Ichiki. "Microwave Signal Processing by Amplified Ferrimagnetic Echo." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 409-413.

The recent discovery of amplified ferrimagnetic echoes (AFE) suggests that a number of microwave signal processing applications may be realized to advantage with this new technology. These include pulse amplification and delay, pulse compression, frequency multiplexing, and spectrum analysis. The results described below were obtained in YIG crystals at room temperature in the frequency range 8 - 12 GHz.

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