

Abstracts

On the Latching of Ferrite Microwave Devices (Short Papers)

R.S. Mueller and F.J. Rosenbaum. "On the Latching of Ferrite Microwave Devices (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.8 (Aug. 1976 [T-MTT]): 522-525.

Empirical relations are given for the hysteresis (B-H) loop of microwave ferrite toroids in terms of their measured properties ($B_{sub r}$, $B_{sub m}$, and $H_{sub c}$) and for the trajectory that B follows when flux drive latching is used. These relations also apply to minor loop switching. Finally, an idealized analysis of flux drive latching is presented and is shown to compare well with experiments for the number of voltage pulses of fixed width and amplitude needed to reverse the remanent flux.

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