

Abstracts

Large Signal Properties of Non-Degenerate Varactor Parametric Amplifiers

D. Jackson. "Large Signal Properties of Non-Degenerate Varactor Parametric Amplifiers." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 159-164.

Parametric amplifiers, in common with many other non-linear devices, exhibit peculiar and perhaps useful properties when operated at high signal levels. For example, abrupt switching between various modes of operation is sometimes observed, and simultaneous oscillation at two different frequencies may occur under certain conditions. A satisfactory quantitative description of many of these phenomena is obtainable through the use of the simplified circuit model shown in Figure 1.

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