Abstracts

Hysteresis Effects in Microwave Amplifiers and Phase-Locked Oscillators Caused by Amplitude-Dependent Susceptance (Short Papers)

B. Hansson. "Hysteresis Effects in Microwave Amplifiers and Phase-Locked Oscillators Caused by Amplitude-Dependent Susceptance (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.11 (Nov. 1973 [T-MTT] (Special Issue on Solid-State Microwave Power Amplifiers)): 739-741.

A possible explanation for a type of experimentally observed amplitude instability for amplifiers and locked oscillators is given. The results obtained are in good agreement qualitatively with measurements on IMPATT-diode amplifiers. The theory shows that the susceptsnce of the active element has to be amplitude dependent to create the actual type of instability.

❑ Return to main document.