

Abstracts

ECAP Analysis of UHF-Transistor-Oscillator Transient Response

H.-N. Toussaint. "ECAP Analysis of UHF-Transistor-Oscillator Transient Response." 1969 Transactions on Microwave Theory and Techniques 17.8 (Aug. 1969 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 620-626.

The oscillation amplitude of an octave band tunable power oscillator is calculated from the transient response of the oscillator at the frequencies of 250 MHz and 500 MHz. The oscillator circuit is at first simplified in order to save computing time. By use of a modified Ebers-Moll-transistor equivalent circuit the simplified circuit is transformed into a network of 62 branches and 26 nodes which is accessible to ECAP-computation. The calculated values coincide almost completely with the measured values.

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