Abstracts

Device-Circuit Interaction Simulation of a TRAPATT Amplifier

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Computer programs have been developed which perform a device-circuit interaction simulation of a TRAPATT amplifier for which experimental results were previously reported. The coaxial line with tuning slugs and the TRAPATT diode are simulated in the time domain. All of the device and circuit parameters reported experimentally are incorporated in the computer simulation. Theoretical results are presented and compared with experimental data.

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