

Abstracts

Analysis of Multiple-Step Radial-Resonator Waveguide Diode Mounts with Application to IMPATT Oscillator Circuits

B.D. Bates. "Analysis of Multiple-Step Radial-Resonator Waveguide Diode Mounts with Application to IMPATT Oscillator Circuits." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 669-672.

A computer-oriented method for determining the driving-point impedance of waveguide diode mounting structures incorporating stepped radial resonators is described. Results of application of the method to the study of IMPATT oscillator circuits are also given. The method is applicable to a wide range of diode mounts including the resonant-cap mount widely used in Gunn and IMPATT circuits.

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