Abstracts

Numerically Efficient Taper Analysis with Controlled Resolution

A. Jostingmeier, C. Rieckmann and A.S. Omar. "Numerically Efficient Taper Analysis with Controlled Resolution." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 995-996.

Circular waveguide tapers which are frequently used in gyrotrons are analyzed based on subdividing the taper into waveguide steps and uniform waveguide sections. Using a special subdivision and controlling the field resolution leads to a high speed-up factor compared to conventional approaches.

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