

Abstracts

Analysis of Open-Type Dielectric Waveguides by the Finite-Element Iterative Method

M. Ikeuchi, H. Sawami and H. Niki. "Analysis of Open-Type Dielectric Waveguides by the Finite-Element Iterative Method." 1981 Transactions on Microwave Theory and Techniques 29.3 (Mar. 1981 [T-MTT]): 234-240.

Dispersion characteristics for open-typed dielectric waveguide structures operated at millimeter- and submillimeter-wave frequencies are calculated by a finite-element iterative procedure with a given criterion on the maximum field strength at the virtual boundary. Numerical results for a rectangular dielectric image guide are presented and compared with results from other methods. The strip dielectric guide and the insulated image guide with finite- or infinite-width substrates are also analyzed.

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