Abstracts

Propagation in a circular waveguide periodically loaded with dielectric disks

S. Amari, R. Vahldieck, J. Bornemann and P. Leuchtmann. "Propagation in a circular waveguide periodically loaded with dielectric disks." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1535-1538.

The propagation properties of angular independent modes in a circular waveguide periodically loaded with thick dielectric disks were accurately determined using the Coupled-Integral-Equation Technique (CIET). The propagation constants of the Floquet modes are determined from the classical eigenvalues of square matrix thereby considerably reducing CPU times. The approach allows efficient determination of propagating, evanescent as well as complex modes in this type of structures.

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