Abstracts

Scattering analysis of a coaxial line terminated by a gap

H.J. Eom, Y.C. Noh and J.K. Park. "Scattering analysis of a coaxial line terminated by a gap." 1998 Microwave and Guided Wave Letters 8.6 (Jun. 1998 [MGWL]): 218-219.

TEM-wave scattering on a coaxial line terminated by a gap is theoretically investigated. The Fourier transform and the mode matching are used to obtain a rapidly convergent series solution. Our solution is compared with Marcuvitz result based on the small-aperture method. Computations are performed to illustrate the phase behavior of reflection versus a gap variation.

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