Abstracts

Radiation from a flanged coaxial line into a dielectric slab

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The radiation from a flanged coaxial line into a dielectric slab is investigated in this paper. The Hankel transform and mode-matching technique are used to obtain simultaneous equations for the modal coefficients. The residue calculus is utilized to represent the solution in rapidly convergent series. Numerical computations are performed to illustrate the behavior of reflection in terms of the slab permittivity, frequency, and coaxial-line geometry.

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