# Abstracts

## Scattering from multiple grooves in the inner conductor of a coaxial line

*H.J. Eom, Y.C. Noh and J.K. Park. "Scattering from multiple grooves in the inner conductor of a coaxial line." 2000 Transactions on Microwave Theory and Techniques 48.7 (Jul. 2000, Part I [T-MTT]): 1151-1153.*

A problem of electromagnetic-wave scattering from multiple grooves in the inner conductor of a coaxial line is theoretically solved. Simultaneous equations for the discrete modal coefficients are formulated by utilizing the Fourier transform. The reflection and transmission coefficients are obtained in numerically efficient fast-convergent series. Numerical computations are performed to show the frequency characteristics of the reflection and transmission coefficients in terms of the groove geometry.

❑ Return to main document.