

# Abstracts

## First-Order Symmetric Modes for a Slightly Lossy Coaxial Transmission Line

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W.C. Daywitt. "First-Order Symmetric Modes for a Slightly Lossy Coaxial Transmission Line." 1990 *Transactions on Microwave Theory and Techniques* 38.11 (Nov. 1990 [T-MTT]): 1644-1650.

A complete set of solutions for Maxwell's equations to first order in the normalized surface impedance  $z$  of the coaxial conductors is found. The resulting characteristic admittance and distributed line parameters are calculated; the distributed line resistance is significantly different from other calculations found in the literature.

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