

Abstracts

Calculation of TEM Transmission-Line Parameters by Finite-Difference Computation of Electric Flux (Correspondence)

D.H. Sinnott. "Calculation of TEM Transmission-Line Parameters by Finite-Difference Computation of Electric Flux (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.8 (Aug. 1969 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 634-637.

Parameters of TEM-mode transmission lines may be calculated by using a finite difference potential solution over the cross section to compute electric flux across a contour and by applying Gauss' theorem. It is shown that an alternative electrostatic energy method gives the same result when the finite difference equations are exactly solved.

[Return to main document.](#)