

Abstracts

Modal Cross Power in Quasi-TEM Transmission Lines

D.F. Williams and F. Olyslager. "Modal Cross Power in Quasi-TEM Transmission Lines." 1996 Microwave and Guided Wave Letters 6.11 (Nov. 1996 [MGWL]): 413-415.

This letter examines modal cross power in electromagnetic transmission lines. It shows that the cross powers of nearly degenerate modes may be large in quasi-TEM multiconductor transmission lines typical of modern electronic circuits at moderate and low microwave frequencies. The letter develops simple expressions to estimate the magnitude of these cross powers from the "power-normalized" conductor impedance and admittance matrices of the lines.

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