

Abstracts

A Note on the Complex Poynting Vector, and on the Fractional Current on the Upper Surface of a Microstrip Line

L. Lewin and T. Ruehle. "A Note on the Complex Poynting Vector, and on the Fractional Current on the Upper Surface of a Microstrip Line." 1980 MTT-S International Microwave Symposium Digest 80.1 (1980 [MWSYM]): 223-224.

It is shown how the two forms $\mathbf{E} \times \mathbf{H}^*$ and $\mathbf{E}^* \times \mathbf{H}$ should be used when extracting reactance information from the complex Poynting Vector in a microstrip problem. When the strip is narrow, some of the axial current appears on top of the strip. Its value is calculated and the practical use of this information is indicated.

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