

Complex Radiation Impedance of Microstrip-Excited Magnetostatic-Interface Waves

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A technique is described for computing the radiation reactance of microstrip-excited MSSW's from a Hilbert transform of a previously derived expression of the radiation resistance. The series combination of the radiation reactance, radiation resistance, and an inductive reactance corresponding to a shorted section of microstrip line forms an equivalent circuit characterizing the excitation process. Supporting impedance measurements are presented and limitations of the model are discussed.

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