

Abstracts

Broad-Band Coupling to High-Q Resonant Loads (Comment)

S.R. Borgaonkar and S.N. Rao. "Broad-Band Coupling to High-Q Resonant Loads (Comment)." 1980 Transactions on Microwave Theory and Techniques 28.7 (Jul. 1980 [T-MTT]): 809-809.

The authors of the above paper have suggested the use of a quarter-wavelength transmission line for coupling a series resonant load to a resistive source over a wide band. In order to approximately achieve broad-band coupling, the authors have suggested a procedure wherein the insertion loss is expanded in a Taylor's series about the load-resonance frequency and the normalized characteristic impedance $z_{\text{sub } l}$ of the line is selected by equating to zero the coefficient of the second term in the series.

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