Abstracts

Conditions for Maximum Power Transfer (Comments)

H.F. Mathis. "Conditions for Maximum Power Transfer (Comments)." 1963 Transactions on Microwave Theory and Techniques 11.5 (Sep. 1963 [T-MTT]): 453-453.

In recent correspondences by Shulman Castaguetto and IMatheau, there arc discussions of the conditions for maximum power transfer. In Shuhnan's notation, the source impedance is Z/sub s/ = R/sub 3/ + jX/sub 3/ = R/sub s/(1 + jx/sub s/), the load impedance is Z = R + jX = R/sub s/(y + jx), P is the power delivered to the load, and P/sub 0/ is the maximum power available from the source. A very simple procedure is to plot Z' = r + j(x + x/sub 3/) on a Smith Chart. Maximum power transfer occurs when Z' is the closest to the center of the chart.

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