

Input Impedance of Coaxial Line to Circular Waveguide Feed (Comments)

P.K. Bondyopadhyay, B.N. Das and M.D. Deshpande. "Input Impedance of Coaxial Line to Circular Waveguide Feed (Comments)." 1979 Transactions on Microwave Theory and Techniques 27.3 (Mar. 1979 [T-MTT]): 284-285.

The author read with interest the above paper in conjunction with the correction to it. While attempting to apply Harrington's well-known development for a coax/rectangular waveguide transition to the coax/circular waveguide transition case, the authors arrived at results and conclusions which are highly erroneous and misleading. As explained below, (4b) and the expression for $X_{1/}$ in (6), the reactance part of the input impedance, are both incorrect. Even if the expression for $X_{1/}$ in (6) is corrected, the reactance series is clearly divergent.

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