Abstracts

Input admittance of a coaxial-line-driven cylindrical cavity with a center dielectric rod

R.B. Keam and J.R. Holdem. "Input admittance of a coaxial-line-driven cylindrical cavity with a center dielectric rod." 1998 Microwave and Guided Wave Letters 8.2 (Feb. 1998 [MGWL]): 49-51.

An expression for the input admittance of a coaxially driven cylindrical cavity is presented. Two cases are presented: first, where the coaxial-line transition is located on one of the flat walls of an empty cavity, and secondly where there is a dielectric rod located coaxially between the two flat walls of the cavity. A comparison between the theory and measurements is presented which shows that the model is capable of yielding a high level of accuracy.

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