

Abstracts

Modeling of Coupling by Probes in Dual Mode Cavities

K.A. Zaki, C. Chen and A.E. Atia. "Modeling of Coupling by Probes in Dual Mode Cavities." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 515-518.

An accurate model of coaxial probes used as input and output ports in dual mode cavities (either air filled or dielectric loaded) is presented. The model precisely predicts such empirically observed phenomena as limited out-of-band isolation, generation of extra transmission zeros and asymmetric responses. The model parameters can be determined from simple measured data. Experimental verification of the model for several configurations showed excellent agreement with theory.

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