

Abstracts

Design and Analysis of Dielectric Resonator-Microstrip Interactive Circuits

M. Yousefi and S.K. Chaudhuri. "Design and Analysis of Dielectric Resonator-Microstrip Interactive Circuits." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1515-1518.

A versatile and efficient integral-equation method to analyze and design DR-microstrip interactive circuits is proposed. The method allows one to directly calculate coupling parameters of the circuit and gives a clear qualitative insight of the behavior of DR-microstrip interactions. The flexibility of the method to analyze DR on a generally shaped metallization, and its computational advantages over methods like "FE" is demonstrated through the design of a band-stop DR-microstrip circuit.

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