Abstracts

Experimental Characterization of Multimode Microwave Resonators Using Automated Network Analyzer

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A computer-assisted procedure for accurate determination of microwave resonator lumped-element equivalent circuit parameters is described. The technique is based on vector network analyzer measurements, and is applicable to multiple resonant modes in close frequency proximity as well as isolated single resonances. Data from either reflection or reaction type measurements may be numerically processed by the same procedure. Results are presented and discussed for several shielded dielectric resonator cases of practical interest.

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