

CAD-Oriented Lossy Models for Radial Stubs

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A lumped equivalent circuit model for both series and double-shunt (butterfly) connected radial stub has been developed. The model -- simple and effective -- not only includes conductor and dielectric losses but also radiation ones, which play an important role in microstrip circuit elements. Experiments widely demonstrate its suitability for implementation in available CAD programs. Furthermore, a synthesis procedure for using radial stubs in circuit design is described. An application of the above design procedure and simulation tools in the development of very broad-band nongrounded terminations is also presented.

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