

Abstracts

Waveguide characterization of chiral material: theory

J. Reinert, G. Busse and A.F. Jacob. "Waveguide characterization of chiral material: theory." 1999 Transactions on Microwave Theory and Techniques 47.3 (Mar. 1999 [T-MTT]): 290-296.

A new procedure to extract all three constitutive parameters of chiral material from waveguide measurements is presented. Two chiral slabs of different length must be measured. Their scattering parameters are inverted in a largely analytical way, complemented by a simple and fast convergent numerical algorithm. Tests with synthetic scattering data show the method to be very accurate and stable.

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