

Abstracts

Waveguide characterization of chiral material: experiments

G. Busse, J. Reinert and A.F. Jacob. "Waveguide characterization of chiral material: experiments." 1999 Transactions on Microwave Theory and Techniques 47.3 (Mar. 1999 [T-MTT]): 297-301.

This paper is devoted to waveguide experiments on chiral materials: the constitutive parameters are extracted from the measured response of two chiral slabs of different length. Practical aspects of the implementation are discussed. This includes the injection molding technique used to manufacture the chiral material. Preliminary investigations are performed to qualitatively assess the material properties. These are quantitatively confirmed by the extracted constitutive parameters. The measurements are validated by experiments on a reference material.

[Return to main document.](#)

Click on title for a complete paper.