

# Abstracts

## FDTD analysis of microwave circulators involving saturated magnetized ferrites

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*J. Lenge, A. Ahland, J. Kastner and D. Schulz. "FDTD analysis of microwave circulators involving saturated magnetized ferrites." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 633-636.*

A three-dimensional FDTD approach for the analysis of microwave circulators is presented. The underlying theoretical fundamentals are introduced, including a model for saturated magnetized ferrite material. The detrimental effect of demagnetizing fields is examined and evaluated for several examples. The simulated scattering characteristics are compared with experimental results.

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