Abstracts

Scattering by FSS on anisotropic substrate for TE and TM excitation

A.L.P.S. Campos, A.G. d'Assuncao and L.M. de Mendonca. "Scattering by FSS on anisotropic substrate for TE and TM excitation." 2002 Transactions on Microwave Theory and Techniques 50.1 (Jan. 2002, Part I [T-MTT] (Mini-Special Issue on 1999 International Microwave and Optoelectronics Conference (IMOC'99))): 72-76.

The scattering of electromagnetic waves from frequency-selective surfaces (FSS) composed of rectangular conducting patches mounted on uniaxial dielectric anisotropic substrate is investigated by using a full-wave analysis. The moment method is used in combination with the spectral-domain immittance approach to determine reflection and transmission coefficients of the FSS structure as function of the geometry parameters and dielectric anisotropy. The analysis provides very accurate results compared to those presented by others and to those obtained by measurements.

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