Abstracts

Analysis of Coupled Microstrip Patch Resonators Printed on Anisotropic Substrates

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Coupled microstrip patch resonators printed on anisotropic substrates are analyzed using the spectral domain method. Both permittivity and permeability tensors of the substrate are included in the formulation of the resonator problem. Appropriate basis functions with built-in edge conditions are constructed and their 3D plots are shown. Resonant frequencies of this structure are examined as functions of microstrip dimension variations in both x and z directions, under several orientations of the material principal axes.

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