Abstracts

Field Displacement Phenomenon in a Rectangular Waveguide Containing a Thin Plate of Omega Medium

J. Mazur and D. Pietrzak. "Field Displacement Phenomenon in a Rectangular Waveguide Containing a Thin Plate of Omega Medium." 1996 Microwave and Guided Wave Letters 6.1 (Jan. 1996 [MGWL]): 34-36.

An analysis of the wave propagation in a rectangular waveguide containing pseudochiral Omega slab is presented in this letter. Approximate continuity conditions modeling a thin Omega plate are introduced to simplify the analysis. The problem is solved by the mode-matching procedure. A notable field displacement phenomenon appearing in the guide owing the pseudochirality properties is studied. Other feature such as a weak perturbation of the dispersion characteristics of the isotropic guide by pseudochirality introduced into the medium is also discussed.

❑ Return to main document.