Abstracts

The Dominant Mode in a Parallel-Plate Chirowaveguide (Short Papers)

L. Zhang, Y. Jiao and C. Liang. "The Dominant Mode in a Parallel-Plate Chirowaveguide (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.10 (Oct. 1994 [T-MTT]): 2009-2012.

It has been reported that the lowest cutoff frequency of the modes in a parallel-plate chirowaveguide is not zero. In this paper, we show that a dominant mode of trivial cutoff frequency may be supported by such a chirowaveguide. The mode exhibits the characteristics of a TEM mode when the chirality of the medium vanishes or the operating frequency is very low. An analogous mode also exists in a bianisotropic chiral coaxial line, i.e., the structure formed by more than one conductor.

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