

عنوان مقاله:

Existence of Stop-Bands in Grounded Left-Handed Slab Waveguides

محل انتشار:

سیزدهمین کنفرانس مهندسی برق ایران (سال: 1384)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Mehrnoosh Vahidpour - *University of Tehran*

Mahmoud Shahabadi - *University of Tehran*

خلاصه مقاله:

In this paper, TE guided modes of a grounded left-handed (LH) slab waveguide are theoretically investigated. It will be demonstrated that LH slab waveguides, unlike right-handed (RH) waveguides, possess stop-bands in two frequency ranges. It is also discussed that LH slab waveguides can support propagation of slow waves and show stop-bands for these waves at higher frequencies. Existence of the stop-bands is an indication of LH properties, so that it can be exploited to identify LH dielectrics form RH ones.

کلمات کلیدی:

Left-handed metamaterials, stop-band, modal analysis, surface waveguides

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/42243>

